

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Spring 2018 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0005**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

\*\* Non-receipt of Summer or Winter Inspection  
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2018 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway			Bank	Unit Miles
Unit No. 01 Butte Creek			Left	15.08
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/14/2018 - 3/14/2018			
DWR Inspector	Bob Duffey			
Accompanied By	Shawn Freitag Sutter Maintenance Yard			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start		Rating **	A	Issue No.	11
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_MA0005_01_s_2013_11				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_MA0005_01_s_2013_12				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	13
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_MA0005_01_s_2013_13				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2014.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	0.05	Rating **	M	Issue No.	45
LM End	0.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.696790 °	39.696790 °
				-121.774154 °	-121.774154 °
DWR ID	DWR_MA0005_01_f_2016_45				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Remove wood logs from the waterside slope and trim trees to at least five feet above the levee slope.					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_45\_20180305\_00022.jpg



View of the wood logs on the landside slope.

LM Start	0.07	Rating **	M	Issue No.	46
LM End	0.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.696611 °	39.696611 °
				-121.774349 °	-121.774349 °
DWR ID	DWR_MA0005_01_f_2016_46				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_46\_20180305\_00023.jpg



View of the damaged slope by foot traffic.

LM Start	0.08	Rating **	M	Issue No.	47
LM End	0.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.696476 °	39.696476 °
				-121.774582 °	-121.774582 °
DWR ID	DWR_MA0005_01_f_2016_47				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings on the waterside and landside slopes to allow visibility.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side WS : Water Side CR : Crown		A : Acceptable M : Minimally Acceptable U : Unacceptable		Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
N/A : Not Applicable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	0.56	Rating **	M	Issue No.	903	
LM End	0.56	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			39.690745 °		39.690745 °
				-121.777342 °		-121.777342 °
DWR ID	DWR_MA0005_01_s _ 2012_903					
Comment Code						
V4 : Elderberries are blocking visibility and flood fight capability.						
Inspector Comment						

No Photos

LM Start	0.58	Rating **	M	Issue No.	32
LM End	0.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.690496 °	39.689137 °
				-121.777109 °	-121.776938 °
DWR ID	DWR_MA0005_01_s _ 2014_32				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_32\_20180305\_00012.jpg



View of the trees along the landside toe blocking visibility.

LM Start	0.68	Rating **	U	Issue No.	44
LM End	0.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.689135 °	39.687968 °
				-121.776929 °	-121.777387 °
DWR ID	DWR_MA0005_01_s _ 2016_44				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_44\_20180305\_00021.jpg



View of oleanders along the landside toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	0.81	Rating **	M	Issue No.	48
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.687332°	39.687332°
				-121.777456°	-121.777456°
DWR ID	DWR_MA0005_01_f_2016_48				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.90	Rating **	U	Issue No.	49
LM End	0.92	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.686087 °	39.685756 °
				-121.777555 °	-121.777540 °
DWR ID	DWR_MA0005_01_f_2016_49				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_49\_20180305\_00024.jpg



View of the wood plank fence at the landside toe.

LM Start	0.98	Rating **	U	Issue No.	50
LM End	1.00	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.684843 °	39.684606 °
				-121.777132 °	-121.776975 °
DWR ID	DWR_MA0005_01_f_2016_50				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Oleanders blocking visibility.					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_50\_20180305\_00025.jpg



View of the oleanders along the landside toe.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	1.01	Rating **	M	Issue No.	51
LM End	1.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.684497 °	39.684497 °
				-121.776905 °	-121.776905 °
DWR ID	DWR_MA0005_01_f_2016_51				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.11	Rating **	M	Issue No.	52
LM End	1.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.683208 °	39.682695 °
				-121.776279 °	-121.776325 °
DWR ID	DWR_MA0005_01_f_2016_52				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.16	Rating **	M	Issue No.	43
LM End	1.24	Issue Type +	En	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.682402 °	39.681322 °
				-121.776405 °	-121.776506 °
DWR ID	DWR_MA0005_01_s_2016_43				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_43\_20180305\_00020.jpg



View of the overgrown vegetation at the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	1.24	Rating **	U	Issue No.	42
LM End	1.26	Issue Type +	En	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.681305 °	39.681044 °
				-121.776533 °	-121.776547 °
DWR ID	DWR_MA0005_01_s _ 2016_42				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_42\_20180305\_00019.jpg



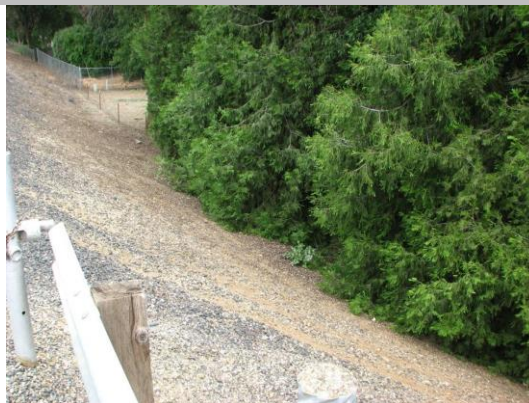
View of the wood plank fence at the landside toe.

LM Start	1.30	Rating **	U	Issue No.	41
LM End	1.36	Issue Type +	En	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.680452 °	39.679551 °
				-121.776667 °	-121.776904 °
DWR ID	DWR_MA0005_01_s _ 2016_41				
Comment Code					
FE : Fence					
Inspector Comment					
Wood plank fencing across multiple properties.					

No Photos

LM Start	1.45	Rating **	M	Issue No.	40
LM End	1.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.678318 °	39.678318 °
				-121.777231 °	-121.777231 °
DWR ID	DWR_MA0005_01_s _ 2016_40				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Cedar trees need to be trimmed up.					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_40\_20180305\_00018.jpg



View of the overgrown cedar trees on the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	1.52	Rating **	M	Issue No.	53
LM End	1.52	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.677240 °	39.677240 °
				-121.777521 °	-121.777521 °
DWR ID	DWR_MA0005_01_f_2016_53				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the pile of soil and rocks on the landside toe.					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_53\_20180305\_00026.jpg



View of the soil and rock pile on the landside toe.

LM Start	1.53	Rating **	M	Issue No.	30
LM End	1.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.677130 °	39.677130 °
				-121.777583 °	-121.777583 °
DWR ID	DWR_MA0005_01_f_2014_30				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_30\_20180305\_00010.jpg



View of the sprinkler pipe and equipment along the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	1.60	Rating **	A/W	Issue No.	71
LM End	1.64	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			39.676298 °	39.675818 °
				-121.778272 °	-121.778630 °
DWR ID	DWR_MA0005_01_f_2017_71				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:224					
Site Designation:MA5-N-01					
Repair Type: Erosion					
Rating:Serious					
Field Date:6/8/2017					
Notes: This soil has more sand and less clay than the other MA5 site, more clay in the levee than in the bank here. There are several small bank erosion sites nearby.					

No Photos

LM Start	1.61	Rating **	M	Issue No.	16
LM End	1.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.676129 °	39.676129 °
				-121.778171 °	-121.778171 °
DWR ID	DWR_MA0005_01_s_2013_16				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_16\_20180305\_00006.jpg



View of the unauthorized vehicle ramp on the landside slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	1.64	Rating **	U	Issue No.	34
LM End	1.64	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.675763 °	39.675763 °
				-121.778485 °	-121.778485 °
DWR ID	DWR_MA0005_01_f_2014_34				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_34\_20180305\_00013.jpg



View of the prunings along the landside toe.

LM Start	1.66	Rating **	M	Issue No.	1
LM End	1.66	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.675528 °	39.675528 °
				-121.778642 °	-121.778642 °
DWR ID	DWR_MA0005_01_s_2012_1				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_1\_20180305\_00001.jpg



View of the construction supply on pallets.

LM Start	1.82	Rating **	M	Issue No.	28
LM End	1.82	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.673390 °	39.673390 °
				-121.779830 °	-121.779830 °
DWR ID	DWR_MA0005_01_s_2015_28				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_28\_20180305\_00009.jpg



View of the prunings along the landside toe.

\* Location  
LS : Land Side N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable N : Not Inspected/Rated  
M : Minimally Acceptable C : Corrected  
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	1.88	Rating **	M	Issue No.	35
LM End	1.88	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.672627 °	39.672627 °
				-121.779778 °	-121.779778 °
DWR ID	DWR_MA0005_01_f_2014_35				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_35\_20180305\_00014.jpg



View of the prunings along the landside toe.

LM Start	2.09	Rating **	M	Issue No.	10
LM End	2.09	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.670112 °	39.670112 °
				-121.782012 °	-121.782012 °
DWR ID	DWR_MA0005_01_s_2016_10				
Comment Code					
FE : Fence					
Inspector Comment					
No permit was found for the gate.					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_10\_20180305\_00005.jpg



View of the unpermitted gate.

LM Start	2.10	Rating **	M	Issue No.	54
LM End	2.10	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.670018 °	39.670018 °
				-121.781997 °	-121.781997 °
DWR ID	DWR_MA0005_01_f_2016_54				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_54\_20180305\_00027.jpg



View of the prunings along the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	2.54	Rating **	M	Issue No.	9
LM End	2.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.663876 °	39.663876 °
				-121.784014 °	-121.784014 °
DWR ID	DWR_MA0005_01_f_2012_9				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_9\_20180305\_00004.jpg



View of the vehicle erosion along the landside slope.

LM Start	3.06	Rating **	U	Issue No.	37
LM End	3.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.656911 °	39.656911 °
				-121.787097 °	-121.787097 °
DWR ID	DWR_MA0005_01_f_2015_37				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_37\_20180305\_00015.jpg



View of the prunings along the landside toe.

LM Start	3.21	Rating **	M	Issue No.	38
LM End	3.21	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.654938 °	39.654938 °
				-121.787892 °	-121.787892 °
DWR ID	DWR_MA0005_01_f_2015_38				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_38\_20180305\_00016.jpg



View of the prunings along the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	3.42	Rating **	M	Issue No.	31
LM End	3.42	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.652028 °	39.652028 °
				-121.789090 °	-121.789090 °
DWR ID	DWR_MA0005_01_s_2015_31				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_31\_20180305\_00011.jpg



View of the prunings along the landside toe.

LM Start	3.60	Rating **	M	Issue No.	39
LM End	3.60	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.649641 °	39.649641 °
				-121.788048 °	-121.788048 °
DWR ID	DWR_MA0005_01_f_2016_39				
Comment Code					
DE : Debris					
Inspector Comment					
Remove pile of soil and wood logs from the landside toe.					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_39\_20180305\_00017.jpg



View of the wood logs and soil along the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	3.61	Rating **	U	Issue No.	904 (cont)
LM End	3.61	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.649522 °	39.649522 °
				-121.787965 °	-121.787965 °
DWR ID					

Comment Code
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Inspector Comment
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FS\_ID:51947  
DS\_ID:1615  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 5/15/2017 WS slide gate stem bent and gate is stuck in the open position. Outlet in the the concrete box on the WS berm is opened and allowed water to free flow through the pipe during the Jan/Feb 2017 high water events. Either the screw gate needs to be repaired or a flap gate added to the outlet in the concrete box to not allow high water flows though the levee. Pipe is believed to be owned and operated by Duhram Mutual Water Company at 1807 Duhram Dayton HWY, PO Box 612, Duhram CA 95938 (530)342-9324. (DWR Sutter Yard- A Freitag) 11/15/2016 Abandoned- slide gate is opened and inoperable. Needs to be properly abandoned. (DWR Sutter Yard- A Freitag) 5/9/2016 Abandoned crossing. Slide gate stem bent and wheel is missing. 8/5/2015 Abandoned crossing. Slide gate stem is bent and gate is inoperable. Needs to be properly abandoned. 12/8/2014 Same as last inspection. 6/11/2014 Same as last inspection. 11/20/2013 Same as last inspection. 5/29/2013 Same as last inspection. 10/30/2012 Pipe appears to be abandoned. Slide gate open and inoperable. Pipe should be properly abandoned. FIELD\_STRUCT\_DESC: 30-inch corrugated metal irrigation pipe (siphon) through the levee, 10.5 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. Concrete distribution box on the landside (LS) toe and concrete overflow and siphon box at the edge of berm. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 368+17)].  
FS Date: 5/31/2017 12:22:58 PM

Photo 2 of 3 : UCIP\_SP\_2018\_51947\_67927.jpg



CMP riser with slide gate on WS shoulder. Notice bent screw in open position.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	3.61	Rating **	U	Issue No.	904 (cont)	
LM End	3.61	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.649522 °	39.649522 °	
				-121.787965 °	-121.787965 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51947 DS_ID:1615 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 5/15/2017 WS slide gate stem bent and gate is stuck in the open position. Outlet in the the concrete box on the WS berm is opened and allowed water to free flow through the pipe during the Jan/Feb 2017 high water events. Either the screw gate needs to be repaired or a flap gate added to the outlet in the concrete box to not allow high water flows though the levee. Pipe is believed to be owned and operated by Duhram Mutual Water Company at 1807 Duhram Dayton HWY, PO Box 612, Duhram CA 95938 (530)342-9324. (DWR Sutter Yard- AFreitag) 11/15/2016 Abandoned- slide gate is opened and inoperable. Needs to be properly abandoned. (DWR Sutter Yard- AFreitag)5/9/2016 Abandoned crossing. Slide gate stem bent and wheel is missing.8/5/2015 Abandoned crossing. Slide gate stem is bent and gate is inoperable. Needs to be properly abandoned.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/20/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe appears to be abandoned. Slide gate open and inoperable. Pipe should be properly abandoned. FIELD_STRUCT_DESC: 30-inch corrugated metal irrigation pipe (siphon) through the levee, 10.5 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. Concrete distribution box on the landside (LS) toe and concrete overflow and siphon box at the edge of berm. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960 (Station 368+17)]. FS Date: 5/31/2017 12:22:58 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_51947\_67926.jpg



Outlet in Concrete overflow box at WS berm.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	3.87	Rating **	A/W	Issue No.	905	
LM End	3.87	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.646217 °	39.646217 °	
				-121.785431 °	-121.785431 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51949 DS_ID:1616 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/15/2017 Crossing appears to be in good condition. LS inlet is located in the Distribution box on the LS toe. This is an overflow pipe used to regulate water levels in side the box. Pipe has been selected to be internally cleaned and inspected as part fo the DMP project. (DWR Sutter Yard- A/Freitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)5/9/2016 Crossing appears to be in good condition.8/5/2015 WS pipe end is being overgrown by trees and other vegetation. Needs to be cleared back.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/20/2013 Same as last inspection.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. Flap gate on the WS toe. Inlet on the landside (LS) toe, not found. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 381+36)]. FS Date: 5/31/2017 12:32:00 PM						

Photo 1 of 3 : UCIP\_SP\_2018\_51949\_67931.jpg



CMP riser and slide gate on WS shoulder.

LM Start	<b>3.87</b>	Rating **	A/W	Issue No.	<b>905 (cont)</b>
LM End	<b>3.87</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_51949\_67930.jpg



Unable to locate inlet on LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	3.87	Rating **	A/W	Issue No.	905 (cont)	
LM End	3.87	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.646217 °	39.646217 °	
				-121.785431 °	-121.785431 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51949						
DS_ID:1616						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 5/15/2017 Crossing appears to be in good condition.						
LS inlet is located in the Distribution box on the LS toe. This is an						
overflow pipe used to regulate water levels in side the box. Pipe has						
been selected to be internally cleaned and inspected as part fo the						
DMP project. (DWR Sutter Yard- AFreitag)11/15/2016 Crossing						
appears to be in good condition. (DWR Sutter Yard-						
AFreitag)5/9/2016 Crossing appears to be in good						
condition.8/5/2015 WS pipe end is being overgrown by trees and						
other vegetation. Needs to be cleared back.12/8/2014 Same as last						
inspection.6/11/2014 Same as last inspection.11/20/2013 Same as						
last inspection.5/29/2013 Same as last inspection.						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe						
through the levee, 16.5 feet below the crown. Slide gate in a corrugated						
metal riser on the waterside (WS) slope. Flap gate on the WS toe. Inlet						
on the landside (LS) toe, not found. [Additional Reference(s): DWR						
Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960,						
(Station 381+36)].						
FS Date: 5/31/2017 12:32:00 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_51949\_67929.jpg



Flap gate in channel at WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	3.90	Rating **	M	Issue No.	906
LM End	3.90	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.645846 °	39.645846 °
				-121.785155 °	-121.785155 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51952 DS_ID:1619 EP_NO: 6544-A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 5/15/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/9/2016 Crossing appears to be in good condition.8/5/2015 Pipe is suspected to cross inside of bridge.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/20/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipeline should be marked where pipe crosses levee as it is 4-feet below the surface. FIELD_STRUCT_DESC: 6-inch concrete encased steel high pressure gas pipeline through the levee, 4 feet below the crown. 8-inch diameter Pacific Gas & Electric Company (PG&E) gas access manhole located on the south side of the road, 250 feet east of the levee crown. (Permit No. 6544-A, 1969 - PG&E) [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 5/31/2017 12:46:31 PM					

LM Start	<b>3.90</b>	Rating **	M	Issue No.	<b>906 (cont)</b>
LM End	<b>3.90</b>	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_51952\_67936.jpg



PG&E access lid on south edge of roadway.

Photo 2 of 2 : UCIP\_SP\_2018\_51952\_67935.jpg



Location of PG&E access lid 250-feet east of levee crown on south side of roadway.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	4.13	Rating **	M	Issue No.	27
LM End	4.13	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.643100 °	39.643100 °
				-121.782827 °	-121.782827 °
DWR ID	DWR_MA0005_01_s_2017_27				
Comment Code					
EQ : Equipment					
Inspector Comment					
Agricultural piping on trailer.					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_27\_20180305\_00008.jpg



5/5/2016: Remove equipment from L/S toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	5.56	Rating **	M	Issue No.	907
LM End	5.56	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.624559 °	39.624559 °
				-121.772141 °	-121.772141 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51954  
DS\_ID:1768  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/15/2017 Abandoned and needs to be done properly. A sink hole formed in the WS toe road and revealed the location of the WS pipe end. Sink hole will need to be repaired before the next high water season but the pipe has been selected to be internally cleaned and camera inspected as part of the DMP project so it will have needed to be excavated along the WS end anyways. (DWR Sutter Yard- A Freitag)11/15/2016 Abandoned. Needs standpipe cover. (DWR Sutter Yard- A Freitag)5/9/2016 Abandoned pipe. Needs a cover for standpipe.8/5/2015 Abandoned pipes. Need covers made for tops of standpipes to prevent falls. 12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. Land owner said pipes are abandoned and no longer used. Covers should be made for top of standpipe to prevent falls. Pipes should be properly abandoned.10/30/2012 Pipe 1/2 filled with soil at slide gate on WS. FIELD\_STRUCT\_DESC: "ABANDONED" 2 of 2: 36-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Slide gate in a 54-inch corrugated metal riser on the waterside (WS) slope. Concrete "U" shaped headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 516, April 1960, (Station 470+00)].  
FS Date: 5/31/2017 12:52:00 PM

LM Start	<b>5.56</b>	Rating **	M	Issue No.	<b>907 (cont)</b>
LM End	<b>5.56</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_51954\_67939.jpg



Headwall at LS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_51954\_67938.jpg



Headwall at LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	5.56	Rating **	M	Issue No.	907 (cont)	
LM End	5.56	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.624559 °		39.624559 °
				-121.772141 °		-121.772141 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51954 DS_ID:1768 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/15/2017 Abandoned and needs to be done properly. A sink hole formed in the WS toe road and revealed the location of the WS pipe end. Sink hole will ned to be repaired before the next high water season but the pipe has been selected to be internally cleaned and camera inspected as part of the DMP project so it will have needed to be excavated along the WS end anyways. (DWR Sutter Yard- A Freitag)11/15/2016 Abandoned. Needs standpipe cover. (DWR Sutter Yard- A Freitag)5/9/2016 Abandoned pipe. Needs a cover for standpipe.8/5/2015 Abandoned pipes. Need covers made for tops of standpipes to prevent falls. 12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. Land owner said pipes are abandoned and no longer used. Covers should be made for top of standpipe to prevent falls. Pipes should be properly abandoned.10/30/2012 Pipe 1/2 filled with soil at slide gate on WS. FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 36-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Slide gate in a 54-inch corrugated metal riser on the waterside (WS) slope. Concrete ""U"" shaped headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 516, April 1960, (Station 470+00)]. FS Date: 5/31/2017 12:52:00 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_51954\_67937.jpg



Slide gate at bottom of cmp riser.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	<b>5.56</b>	Rating **	M	Issue No.	<b>908</b>
LM End	<b>5.56</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.624559 °	39.624559 °	
			-121.772141 °	-121.772141 °	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51955  
DS\_ID:1620  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/15/2017 Abandoned and needs to be done properly. A sink hole formed in the WS toe road and revealed the location of the WS pipe end. Sink hole will need to be repaired before the next high water season but the pipe has been selected to be internally cleaned and camera inspected as part of the DMP project so it will have needed to be excavated along the WS end anyways. (DWR Sutter Yard- A Freitag) 11/15/2016 Abandoned. Needs cover for the standpipe. (DWR Sutter Yard- A Freitag) 5/9/2016 Abandoned pipe. Needs a cover for the standpipe. 8/5/2015 Abandoned crossing. Covers need to be made for tops of standpipes to prevent falls. 12/8/2014 Same as last inspection. 6/11/2014 Same as last inspection. 11/19/2013 Same as last inspection. 5/29/2013 Same as last inspection. Land owner said pipes are abandoned and no longer used. Covers should be made for top of standpipe to prevent falls. Pipes should be properly abandoned. 10/30/2012 Pipe 1/2 filled with soil at slide gate end.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 1 of 2: 36-inch drainage pipe through the levee, 11 feet below the crown. Slide gate in a 54-inch corrugated metal riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 516, April 1960 (Station 470+00)].  
FS Date: 5/31/2017 1:00:19 PM

LM Start	<b>5.56</b>	Rating **	M	Issue No.	<b>908 (cont)</b>
LM End	<b>5.56</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_51955\_67941.jpg



Headwall at LS toe.

Photo 2 of 2 : UCIP\_SP\_2018\_51955\_67940.jpg



54-inch CMP riser and slide gate on WS shoulder.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	5.69	Rating **	M	Issue No.	55
LM End	6.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.622766 °	39.615666 °
				-121.773159 °	-121.777353 °
DWR ID	DWR_MA0005_01_s_2015_55				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_55\_20180305\_00028.jpg



View of the irrigation ditch along the landside toe.

LM Start	5.75	Rating **	M	Issue No.	909
LM End	5.75	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.621955 °	39.621955 °
				-121.773633 °	-121.773633 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51958 DS_ID:1622 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: 5/15/2017 Unable to locate. (DWR Sutter Yard-AFreitag)11/15/2016 Unable to locate. The concrete fill in the LS toe channel appears to just be erosion protection. (DWR Sutter Yard-AFreitag)8/5/2015 Unable to locate.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 18-inch corrugated metal drainage pipe through the levee, 15 feet below the crown, indicator found. Concrete headwall and flap gate on the waterside (WS). Concrete fill in channel on the landside (LS) toe is a good indicator of the pipe location. [Additional Reference(s): DWR Levee Log, 1990. USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 8, April 1957, (Station 480+25)]. FS Date: 5/31/2017 1:06:21 PM					

Photo 1 of 1 : UCIP\_SP\_2018\_51958\_11616.jpg



Concrete fill on LS toe a good indicator for location of pipe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	5.81	Rating **	U	Issue No.	56
LM End	5.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.621261 °	39.621261 °
				-121.773973 °	-121.773973 °
DWR ID	DWR_MA0005_01_f_2016_56				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 2 : SP\_2018\_MA0005\_196\_56\_20180305\_00029.jpg



View of the landside toe erosion.

LM Start	<b>5.81</b>	Rating **	U	Issue No.	<b>56 (cont)</b>
LM End	<b>5.81</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_MA0005\_196\_56\_20180305\_00030.jpg



Another view of the landside toe erosion.

LM Start	6.33	Rating **	A	Issue No.	65
LM End	6.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.614287 °	39.614287 °
				-121.777978 °	-121.777978 °
DWR ID	DWR_MA0005_01_s_2018_65				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
There is native grasses on both slopes.					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_65\_20180402\_00089.jpg



View of the native grasses on both slopes.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	7.08	Rating **	M	Issue No.	57
LM End	7.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.604357 °	39.604357 °
				-121.783665 °	-121.783665 °
DWR ID	DWR_MA0005_01_f _ 2016_57				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_57\_20180305\_00031.jpg



View of the landside slope erosion.

LM Start	7.58	Rating **	M	Issue No.	910	
LM End	7.58	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.597725 °	39.597725 °	
				-121.787257 °	-121.787257 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51970						
DS_ID:1628						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 5/16/2017 LS inlet is almostc ompletely buried.						
Nothing visible on the WS. Pipe has been selected to be internally						
cleaned and inspected as part of the DMP poject. (DWR Sutter Yard-						
AFreitag)11/15/2016 Appears abandoned and should be done so						
properly. (DWR Sutter Yard- AFreitag)5/11/2016 Possibly an						
abandoned crossing. LS inlet was over 50% buried and nothing was						
found on the WS.8/4/2015 LS pipe end filled about 50% with soil and						
WS pipe end is buried.12/8/2014 Same as last						
inspection.6/11/2014 Same as last inspection.11/19/2013 Same as						
last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe						
filled with soil and outlet/appurtances are burried.						
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal						
drainage pipe through the levee, 8.5 feet below the crown. Flap gate on						
the waterside (WS). Concrete ""U"" shaped headwall on the landside						
(LS) toe. [Additional Reference(s): DWR Levee Log, 1990. USACE						
Sacramento O&M Manual 515, April 1955, (Station 576+72). USACE						
As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 2, April 1950, (Station						
576+72.4)].						
FS Date: 5/31/2017 1:58:05 PM						

Photo 1 of 2 : UCIP\_SP\_2018\_51970\_67970.jpg



Headwall at LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	7.58	Rating **	M	Issue No.	910 (cont)
LM End	7.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.597725 °	39.597725 °
				-121.787257 °	-121.787257 °
DWR ID					

Comment Code
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Inspector Comment
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FS\_ID:51970  
DS\_ID:1628  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/16/2017 LS inlet is almostc ompletely buried. Nothing visible on the WS. Pipe has been selected to be internally cleaned and inspected as part of the DMP poject. (DWR Sutter Yard- AFreitag)11/15/2016 Appears abandoned and should be done so properly. (DWR Sutter Yard- AFreitag)5/11/2016 Possibly an abandoned crossing. LS inlet was over 50% buried and nothing was found on the WS.8/4/2015 LS pipe end filled about 50% with soil and WS pipe end is buried.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe filled with soil and outlet/appurtances are burried.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through the levee, 8.5 feet below the crown. Flap gate on the waterside (WS). Concrete ""U"" shaped headwall on the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 576+72). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 2, April 1950, (Station 576+72.4)].  
FS Date: 5/31/2017 1:58:05 PM

Photo 2 of 2 : UCIP\_SP\_2018\_51970\_67969.jpg



Headwall at LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	7.70	Rating **	A/W	Issue No.	72	
LM End	7.70	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			39.596076 °		39.596076 °
				-121.788123 °		-121.788123 °
DWR ID	DWR_MA0005_01_f_2017_72					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:225						
Site Designation:MA5-02						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:6/8/2017						
Notes: Total length is 108 ft.						

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	8.21	Rating **	M	Issue No.	911
LM End	8.21	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.589751 °	39.589751 °
				-121.792818 °	-121.792818 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51972  
DS\_ID:1629  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/16/2017 LS inlet is half blocked off by flash boards and sediment. WS flap gate is blocked closed by sediment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/15/2016 LS inlet was unburied and entire pipe is about 25% full of soil. WS flapgate was shut and partially buried. (DWR Sutter Yard- A Freitag)5/11/2016 WS flap gate was about 50% buried and LS was 100% buried. Appears to be an abandoned crossing.8/4/2015 WS flap gate is partially buried by soil and being overgrown with vegetation. LS pipe end was underwater and suspected to still be completely buried with soil.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe filled with soil.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.3 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls at the landside (LS) and the WS toes.  
[Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 609+79). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 609+78.5)].  
FS Date: 5/31/2017 1:59:10 PM

LM Start	<b>8.21</b>	Rating **	M	Issue No.	<b>911 (cont)</b>
LM End	<b>8.21</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_51972\_67973.jpg



Outlet at WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_51972\_67972.jpg



Buried inlet at LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	8.21	Rating **	M	Issue No.	911 (cont)
LM End	8.21	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.589751 °	39.589751 °
				-121.792818 °	-121.792818 °
DWR ID					

Comment Code
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Inspector Comment
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FS\_ID:51972  
DS\_ID:1629  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/16/2017 LS inlet is half blocked off by flash boards and sediment. WS flap gate is blocked closed by sediment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag) 11/15/2016 LS inlet was unburied and entire pipe is about 25% full of soil. WS flapgate was shut and partially buried. (DWR Sutter Yard- A Freitag) 5/11/2016 WS flap gate was about 50% buried and LS was 100% buried. Appears to be an abandoned crossing. 8/4/2015 WS flap gate is partially buried by soil and being overgrown with vegetation. LS pipe end was underwater and suspected to still be completely buried with soil. 12/8/2014 Same as last inspection. 6/11/2014 Same as last inspection. 11/19/2013 Same as last inspection. 5/29/2013 Same as last inspection. 10/30/2012 Pipe filled with soil.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.3 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls at the landside (LS) and the WS toes.  
[Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 609+79). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 609+78.5)].  
FS Date: 5/31/2017 1:59:10 PM

Photo 3 of 3 : UCIP\_SP\_2018\_51972\_67971.jpg



Flap gate at WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	9.08	Rating **	M	Issue No.	912
LM End	9.08	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.579908 °	39.579908 °
				-121.802790 °	-121.802790 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51975 DS_ID:1631 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2017 Abandoned and needs to be done so properly. (DWR Sutter Yard- A Freitag) 11/15/2016 Abandoned. (DWR Sutter Yard- A Freitag) 5/11/2016 Abandoned pipe. 8/4/2015 Abandoned pipe. Casey Wilder has started the steps to have the pipe properly abandoned and removed from the levee. 12/8/2014 Same as last inspection. 6/11/2014 Same as last inspection. 11/19/2013 Same as last inspection. 5/29/2013 Same as last inspection. 10/30/2012 Need to confirm proper abandonment of pipe. Pipe should be plugged on LS. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 11.5 feet below the crown. Distribution box at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 655+68). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 655+68.2)]. FS Date: 5/31/2017 2:09:46 PM					

Photo 1 of 3 : UCIP\_SP\_2018\_51975\_67976.jpg



Concrete distribution box at LS toe.

LM Start	<b>9.08</b>	Rating **	M	Issue No.	<b>912 (cont)</b>
LM End	<b>9.08</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_51975\_67975.jpg



WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	9.08	Rating **	M	Issue No.	912 (cont)	
LM End	9.08	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.579908 °	39.579908 °	
				-121.802790 °	-121.802790 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51975 DS_ID:1631 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2017 Abandoned and needs to be done so properly. (DWR Sutter Yard- A Freitag)11/15/2016 Abandoned. (DWR Sutter Yard- A Freitag)5/11/2016 Abandoned pipe.8/4/2015 Abandoned pipe. Casey Wilder has started the steps to have the pipe properly abandoned and removed from the levee.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Need to confirm proper abandonment of pipe. Pipe should be plugged on LS. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 11.5 feet below the crown. Distribution box at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 655+68). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 655+68.2)]. FS Date: 5/31/2017 2:09:46 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_51975\_67974.jpg



Pipe at bottom of concrete distribution box.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	9.52	Rating **	A/W	Issue No.	913	
LM End	9.52	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.575072 °	39.575072 °	
				-121.807805 °	-121.807805 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51976						
DS_ID:1775						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 5/16/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing is in good condition. No noticeable issues to report.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Flap gates were removed by DWR Sutter Maintenance Yard to allow water to flow freely through crossing and not back up in ditch.10/30/2012 Seems there should be flap gates on this structure.						
FIELD_STRUCT_DESC: [Robert's Creek Outlet Structure] 1 of 4: 66-inch corrugated metal drainage pipe through the levee, 17.9 feet below the crown. Concrete headwalls on the landside (LS) and the waterside (WS). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 678+00). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 678+00)].						
FS Date: 5/31/2017 2:10:41 PM						

LM Start	<b>9.52</b>	Rating **	A/W	Issue No.	<b>913 (cont)</b>
LM End	<b>9.52</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_51976\_67979.jpg



WS of pipe crossing

Photo 2 of 2 : UCIP\_SP\_2018\_51976\_67978.jpg



LS of pipe crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	9.52	Rating **	A/W	Issue No.	914	
LM End	9.52	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.575036 °	39.575036 °	
				-121.807807 °	-121.807807 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51977						
DS_ID:1774						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 5/16/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing is in good condition. No noticeable issues to report.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Flap gates were removed by DWR Sutter Maintenance Yard to allow water to flow freely through crossing and not back up in ditch.10/30/2012 Seems there should be flap gates on this structure.						
FIELD_STRUCT_DESC: [Robert's Creek Outlet Structure] 2 of 4: 66-inch corrugated metal drainage pipe through the levee, 17.9 feet below the crown. Concrete headwalls on the landside (LS) and the waterside (WS). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 678+00). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 678+00)].						
FS Date: 5/31/2017 2:12:05 PM						

LM Start	<b>9.52</b>	Rating **	A/W	Issue No.	<b>914 (cont)</b>
LM End	<b>9.52</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_51977\_67981.jpg



WS of crossing.

Photo 2 of 2 : UCIP\_SP\_2018\_51977\_67980.jpg



LS of crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Sutter Maintenance Yard Maintenance Area 0005

LS of crossing.

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	9.52	Rating **	A/W	Issue No.	916	
LM End	9.52	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.574964 °	39.574964 °	
				-121.807810 °	-121.807810 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51979						
DS_ID:1773						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 5/16/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing appears in good condition. No noticeable issues to report.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Flap gates were removed by DWR Sutter Maintenance Yard to allow water to flow freely through crossing and not back up in ditch.10/30/2012 Seems there should be flap gates on this structure.						
FIELD_STRUCT_DESC: [Robert's Creek Outlet Structure] 4 of 4: 66-inch corrugated metal drainage pipe through the levee, 17.9 feet below the crown. Concrete headwalls on the landside (LS) and the waterside (WS). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 678+00). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 678+00)].						
FS Date: 5/31/2017 2:14:38 PM						

LM Start	<b>9.52</b>	Rating **	A/W	Issue No.	<b>916 (cont)</b>
LM End	<b>9.52</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_51979\_67985.jpg



WS of crossing.

Photo 2 of 2 : UCIP\_SP\_2018\_51979\_67984.jpg



LS of crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	9.54	Rating **	M	Issue No.	5
LM End	10.33	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.574837 °	39.567892 °
				-121.807913 °	-121.819283 °
DWR ID	DWR_MA0005_01_s_2012_5				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_5\_20180305\_00002.jpg



View of the agricultural ditch along the landside toe.

LM Start	10.04	Rating **	M	Issue No.	917
LM End	10.04	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.570596 °	39.570596 °
				-121.815215 °	-121.815215 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51980 DS_ID:1633 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2017 Abandoned crossing and needs to be done so properly. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/15/2016 Abandoned. (DWR Sutter Yard-AFreitag)5/11/2016 Abandoned crossing.8/4/2015 Abandoned pipe. Casey Wilder has started the steps to have the pipe properly abandoned and removed from the levee.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe and headwall buried on WS, no access to slide gate. FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 12.5 feet below the crown. Slide gate on the waterside (WS). Flap gate and headwall on the landside (LS). Concrete headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 706+00)]. FS Date: 5/31/2017 2:15:33 PM					

Photo 1 of 1 : UCIP\_SP\_2018\_51980\_67986.jpg



Flap gate and headwall at LS toe in irrigation or drainage ditch.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	10.26	Rating **	M	Issue No.	918
LM End	10.26	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		39.568523 °	39.568523 °	
			-121.818232 °	-121.818232 °	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51981  
DS\_ID:1634  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/16/2017 Abandoned- needs to be done so properly. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/15/2016 Abandoned. (DWR Sutter Yard- A Freitag)5/11/2016 Abandoned crossing.8/4/2015 Abandoned pipe. Casey Wilder has started the steps to have the pipe properly abandoned and removed from the levee.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal irrigation pipe through the levee, 14.5 feet below the crown. Slide gate on the waterside (WS) on concrete headwall. Flap gate on the landside (LS).  
[Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 717+50)].  
FS Date: 5/31/2017 2:16:48 PM

LM Start	10.26	Rating **	M	Issue No.	918 (cont)
LM End	10.26	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_51981\_67989.jpg



Pipe and flap gate on LS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_51981\_67988.jpg



headwall at WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	10.26	Rating **	M	Issue No.	918 (cont)	
LM End	10.26	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.568523 °	39.568523 °	
				-121.818232 °	-121.818232 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51981 DS_ID:1634 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2017 Abandoned- needs to be done so properly. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/15/2016 Abandoned. (DWR Sutter Yard- AFreitag)5/11/2016 Abandoned crossing.8/4/2015 Abandoned pipe. Casey Wilder has started the steps to have the pipe properly abandoned and removed from the levee.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation pipe through the levee, 14.5 feet below the crown. Slide gate on the waterside (WS) on concrete headwall. Flap gate on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 717+50)]. FS Date: 5/31/2017 2:16:48 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_51981\_67987.jpg



Headwall and slide gate on WS toe.

LM Start	10.37	Rating **	M	Issue No.	26	
LM End	10.37	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			39.567541 °		39.567541 °
				-121.819786 °		-121.819786 °
DWR ID	DWR_MA0005_01_s_2016_26					
Comment Code						
EQ : Equipment						
Inspector Comment						
Abandoned motorhomes and farm equipment.						

Photo 1 of 1 : SP\_2018\_MA0005\_196\_26\_20180305\_00007.jpg



5/5/2016: Remove abandoned motorhome and equipment from L/S toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	<b>10.84</b>	Rating **	M	Issue No.	<b>919 (cont)</b>
LM End	<b>10.84</b>	Issue Type +	Ma	Location *	

A photograph showing a vast, flat, yellowish-brown field, possibly a dry lake bed or a harvested agricultural field. The field is characterized by horizontal ripples and some darker patches. In the foreground, there is a dark, gravelly area and a strip of green grass. The overall scene is arid and desolate.

Concrete headwall at LS toe.

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	10.87	Rating **	M	Issue No.	67
LM End	10.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.562177 °	39.562177 °
				-121.826072 °	-121.826072 °
DWR ID	DWR_MA0005_01_s_2017_67				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Repair the erosion along the water side slope.					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_67\_20180305\_00032.jpg



View of erosion along the waterside slope.

LM Start	10.94	Rating **	M	Issue No.	920
LM End	10.94	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.561483 °	39.561483 °
				-121.826939 °	-121.826939 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51988 DS_ID:1781 EP_NO: 16667 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2017 LS appears to be in good condition. WS outlet is too heavily vegetated to be inspected. Vegetation needs to be cleared back. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing appears in good condition. No noticeable issues to report.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: [Western Canal Siphon] 5 of 5: 18-inch reinforced concrete irrigation pipe through the levee, at an unknown depth. Pipe terminates at a concrete outlet on the waterside (WS) slope. Concrete headwalls on both the landside (LS) and the WS. Slide gate and air vent on the LS. This is a turnout that was installed for the use of the property owner. (Permit No. 16667, 1997 - Western Canal Water District). FS Date: 5/31/2017 2:23:27 PM					

Photo 1 of 3 : UCIP\_SP\_2018\_51988\_68002.jpg



Concrete U shaped headwall at inlet in canal on LS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	10.94	Rating **	M	Issue No.	920 (cont)	
LM End	10.94	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			39.561483 °	39.561483 °	
				-121.826939 °	-121.826939 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51988 DS_ID:1781 EP_NO: 16667 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2017 LS appears to be in good condition. WS outlet is too heavily vegetated to be inspected. Vegetation needs to be cleared back. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A/Freitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing appears in good condition. No noticeable issues to report.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: [Western Canal Siphon] 5 of 5: 18-inch reinforced concrete irrigation pipe through the levee, at an unknown depth. Pipe terminates at a concrete outlet on the waterside (WS) slope. Concrete headwalls on both the landside (LS) and the WS. Slide gate and air vent on the LS. This is a turnout that was installed for the use of the property owner. (Permit No. 16667, 1997 - Western Canal Water District). FS Date: 5/31/2017 2:23:27 PM						

LM Start	<b>10.94</b>	Rating **	M	Issue No.	<b>920 (cont)</b>
LM End	<b>10.94</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_51988\_68001.jpg



Concrete U shaped outlet on WS slope.

Photo 3 of 3 : UCIP\_SP\_2018\_51988\_68000.jpg



Air vents, slide gates, and concrete headwall at south side of canal on LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	11.36	Rating **	A/W	Issue No.	921
LM End	11.36	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.556741 °	39.556741 °
				-121.832071 °	-121.832071 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51990  
DS\_ID:1636  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 5/16/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A/Freitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing appears in good condition. No noticeable issues to report.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 1 of 4: 54-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 25+18"A"). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 4, April 1950, (Station 25+18"A")].  
FS Date: 5/31/2017 2:25:00 PM

LM Start	<b>11.36</b>	Rating **	A/W	Issue No.	<b>921 (cont)</b>
LM End	<b>11.36</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_51990\_68007.jpg



WS headwall and flap gates at WS toe.

Photo 2 of 2 : UCIP\_SP\_2018\_51990\_68006.jpg



LS intake headwall.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	11.36	Rating **	A/W	Issue No.	922
LM End	11.36	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.556716 °	39.556716 °
				-121.832097 °	-121.832097 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51991  
DS\_ID:1782  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 5/16/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A/Freitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing appears in good condition. No noticeable issues to report.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 2 of 4: 54-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 28+18"A"). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 4, April 1950, (Station 25+18"A").].  
FS Date: 5/31/2017 2:31:05 PM

LM Start	<b>11.36</b>	Rating **	A/W	Issue No.	<b>922 (cont)</b>
LM End	<b>11.36</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_51991\_68009.jpg



Headwall and flap gates at WS toe.

Photo 2 of 2 : UCIP\_SP\_2018\_51991\_68008.jpg



Headwall at LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	11.37	Rating **	A/W	Issue No.	923
LM End	11.37	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.556693 °	39.556693 °
				-121.832119 °	-121.832119 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51992  
DS\_ID:1783  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 5/16/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A/Freitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing appears in good condition. No noticeable issues to report.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 3 of 4: 54-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 28+18"A"). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 4, April 1950, (Station 25+18"A").].  
FS Date: 5/31/2017 2:32:13 PM

LM Start	<b>11.37</b>	Rating **	A/W	Issue No.	<b>923 (cont)</b>
LM End	<b>11.37</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_51992\_68011.jpg



Headwall and flap gates at WS toe.

Photo 2 of 2 : UCIP\_SP\_2018\_51992\_68010.jpg



Headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	11.37	Rating **	A/W	Issue No.	924
LM End	11.37	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.556681 °	39.556681 °
				-121.832130 °	-121.832130 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51993  
DS\_ID:1784  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 5/16/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A/Freitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing appears in good condition. No noticeable issues to report.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 4 of 4: 54-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 28+18"A"). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 4, April 1950, (Station 25+18"A").]  
FS Date: 5/31/2017 2:32:54 PM

LM Start	<b>11.37</b>	Rating **	A/W	Issue No.	<b>924 (cont)</b>
LM End	<b>11.37</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_51993\_68013.jpg



Headwall and flap gates at WS toe.

Photo 2 of 2 : UCIP\_SP\_2018\_51993\_68012.jpg



Headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	11.80	Rating **	A/W	Issue No.	925
LM End	11.80	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.551757 °	39.551757 °
				-121.837252 °	-121.837252 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51994					
DS_ID:1637					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments: 11/15/2016 Old pipe at Nelson Road- Replaced by DS_ID 25461. (DWR Sutter Yard- A Freitag)6/22/2016 Pipe removed in 2013 and replaced with new 30-inch pipe (SEE DS_ID 25461). New pipe is inspected under DS_ID 25461. This DS_ID 1637 is no longer in use, pipe has been removed. (DWR UCIP - Olivia M.)7/30/2013 Repaired June 20135/29/2013 Pipe was video inspected and it was determined it needs full replacement. Replacement construction is scheduled to begin in the week of 6/3/2013.10/31/2012 Pipe is totally corroded through on WS toe and flap gate is missing. Pipe likely requires total replacement.					
FIELD_STRUCT_DESC: *REMOVED* 30-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 835+21). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 4, April 1950, (Station 835+20.96)].					
FS Date: 5/31/2017 2:33:29 PM					

Photo 1 of 3 : UCIP\_SP\_2018\_51994\_68017.jpg



Drainage canal on LS toe.

LM Start	11.80	Rating **	A/W	Issue No.	925 (cont)
LM End	11.80	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_51994\_68016.jpg



Concrete headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	11.80	Rating **	A/W	Issue No.	925 (cont)	
LM End	11.80	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.551757 °	39.551757 °	
				-121.837252 °	-121.837252 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51994						
DS_ID:1637						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 11/15/2016 Old pipe at Nelson Road- Replaced by DS_ID 25461. (DWR Sutter Yard- AFreitag)6/22/2016 Pipe removed in 2013 and replaced with new 30-inch pipe (SEE DS_ID 25461). New pipe is inspected under DS_ID 25461. This DS_ID 1637 is no longer in use, pipe has been removed. (DWR UCIP - Olivia M.)7/30/2013 Repaired June 20135/29/2013 Pipe was video inspected and it was determined it needs full replacement. Replacement construction is scheduled to begin in the week of 6/3/2013.10/31/2012 Pipe is totally corroded through on WS toe and flap gate is missing. Pipe likely requires total replacement.						
FIELD_STRUCT_DESC: *REMOVED* 30-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 835+21). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 4, April 1950, (Station 835+20.96)].						
FS Date: 5/31/2017 2:33:29 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_51994\_68015.jpg



Heavily corroded CMP pipe at WS toe.

LM Start	11.85	Rating **	M	Issue No.	6
LM End	13.64	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.551235 °	39.531462 °
				-121.837697 °	-121.856165 °
DWR ID	DWR_MA0005_01_s_2012_6				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_196\_6\_20180305\_00003.jpg



View of the agricultural ditch along the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

Photo 1 of 1 : UCIP\_SP\_2018\_51996\_68025.jpg



Buried pipe at concrete box, LS toe.

Photo 1 of 1 : SP\_2018\_MA0005\_196\_69\_20180305\_00034.jpg



Repair the erosion along the landside slope and toe.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	14.46	Rating **	M	Issue No.	927
LM End	14.46	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.522200 °	39.522200 °
				-121.865592 °	-121.865592 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51999 DS_ID:1639 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2017 Soil still eroded away from the WS wing walls. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A/Freitag)11/15/2016 No soil supporting the WS wing walls. (DWR Sutter Yard- A/Freitag)5/11/2016 Still no soil supporting the WS wing walls and apron. WS vegetation was thinner and not a problem this time.8/4/2015 No soil supporting the WS wing walls at the WS pipe end. WS pipe end is also being overgrown with vegetation and should be cleared back.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/31/2012 Soil under Concrete wing walls on WS toe has been eroded. No soil supporting wing walls. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on the landside (LS) and the WS ends. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 978+25). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 5, April 1950, (Station 978+24.95)]. FS Date: 5/31/2017 2:39:05 PM					

LM Start	<b>14.46</b>	Rating **	M	Issue No.	<b>927 (cont)</b>
LM End	<b>14.46</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_51999\_68033.jpg



Headwall at inlet on LS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_51999\_68032.jpg



CMP pipe, flap gate, and headwall on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	03/14/2018 03/14/2018	Bob Duffey

LM Start	14.46	Rating **	M	Issue No.	927 (cont)	
LM End	14.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.522200 °	39.522200 °	
				-121.865592 °	-121.865592 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51999						
DS_ID:1639						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 5/16/2017 Soil still eroded away from the WS wing walls. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A/Freitag)11/15/2016 No soil supporting the WS wing walls. (DWR Sutter Yard- A/Freitag)5/11/2016 Still no soil supporting the WS wing walls and apron. WS vegetation was thinner and not a problem this time.8/4/2015 No soil supporting the WS wing walls at the WS pipe end. WS pipe end is also being overgrown with vegetation and should be cleared back.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/31/2012 Soil under Concrete wing walls on WS toe has been eroded. No soil supporting wing walls.						
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on the landside (LS) and the WS ends. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 978+25). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 5, April 1950, (Station 978+24.95)].						
FS Date: 5/31/2017 2:39:05 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_51999\_68031.jpg



Wingwalls of headwall not supported by soil.

LM Start	14.50	Rating **	C	Issue No.	68
LM End	15.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.521852 °	39.515597 °
				-121.866183 °	-121.873198 °
DWR ID	DWR_MA0005_01_s_2017_68				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
The erosion was repaired along the waterside toe.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			



**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2018 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway			Bank	Unit Miles
Unit No. 02 Butte Creek			Right	16.27
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/14/2018 - 3/14/2018			
DWR Inspector	Bob Duffey			
Accompanied By	Shawn Freitag Sutter Maintenance Yard			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	1.21	Rating **	M	Issue No.	1
LM End	1.59	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.529933 °	39.534102 °
				-121.861563 °	-121.856947 °
DWR ID	DWR_MA0005_02_s_2012_1				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_1\_20180305\_00001.jpg



View of the agricultural ditch along the landside toe.

LM Start	1.60	Rating **	M	Issue No.	69
LM End	1.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.534170 °	39.534170 °
				-121.856853 °	-121.856853 °
DWR ID	DWR_MA0005_02_s_2017_69				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the debris from the waterside toe.					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_69\_20180305\_00034.jpg



View of the debris along the waterside toe.

LM Start	1.86	Rating **	M	Issue No.	48
LM End	1.86	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.536915 °	39.536915 °
				-121.853669 °	-121.853669 °
DWR ID	DWR_MA0005_02_f_2016_48				
Comment Code					
EQ : Equipment					
Inspector Comment					
Remove pile of soil and rocks and ag equipment from the toe of the levee.					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_48\_20180305\_00023.jpg



View of soil pile, rocks, and ag equipment.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	1.90	Rating **	M	Issue No.	49
LM End	1.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.537445 °	39.537445 °
				-121.853112 °	-121.853112 °
DWR ID	DWR_MA0005_02_f_2016_49				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion on the landside toe of the levee.					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_49\_20180305\_00024.jpg



View of the landside toe erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	1.91	Rating **	U	Issue No.	70
LM End	1.91	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.537455 °	39.537455 °
				-121.853061 °	-121.853061 °
DWR ID					

Comment Code
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Inspector Comment
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FS\_ID:52012  
DS\_ID:1645  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 5/18/2017 LS erosion still present. WS flap gate has been completely buried by sediment after the high water flows through the area. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 LS erosion still present and is into the prism of the levee. WS flap gate was still mostly buried and non-operational. (DWR Sutter Yard- AFreitag)5/23/2016 The tree that was overgrowing the WS flapgate has been removed. Flap gate was half buried and unable to open. Erosion on the LS is still present. (DWR Sutter Yard - afreitag)7/28/2015 LS inlet is underwater but there appears to be erosion behind the LS headwall. WS pipe end and flap gate are completely overgrown and inaccessible for inspection. (DWR Sutter Yard - afreitag)11/25/2014 Tree is overgrowing the WS pipe outlet.. Needs to be trimmed back. (DWR Sutter Yard - afreitag)6/4/2014 Same as last inspection. (DWR Sutter Yard - afreitag)11/12/2013 Same as last inspection. (DWR Sutter Yard - afreitag)6/6/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/31/2012 Vegetation needs to be cleared from outlet. (DWR UCIP - wwylie)  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 17 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS) toe. Concrete headwalls at both the LS and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, (Station 902+50). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 5, April 1950, (Station 902+50)].  
FS Date: 6/1/2017 9:42:13 AM

Photo 1 of 3 : UCIP\_SP\_2018\_52012\_68498.jpg



Concrete headwall and slide gate on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	1.91	Rating **	U	Issue No.	70 (cont)
LM End	1.91	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.537455 °	39.537455 °
				-121.853061 °	-121.853061 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:52012  
DS\_ID:1645  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 5/18/2017 LS erosion still present. WS flap gate has been completely buried by sediment after the high water flows through the area. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag) 11/14/2016 LS erosion still present and is into the prism of the levee. WS flap gate was still mostly buried and non-operational. (DWR Sutter Yard- A Freitag) 5/23/2016 The tree that was overgrowing the WS flapgate has been removed. Flap gate was half buried and unable to open. Erosion on the LS is still present. (DWR Sutter Yard - a Freitag) 7/28/2015 LS inlet is underwater but there appears to be erosion behind the LS headwall. WS pipe end and flap gate are completely overgrown and inaccessible for inspection. (DWR Sutter Yard - a Freitag) 11/25/2014 Tree is overgrowing the WS pipe outlet.. Needs to be trimmed back. (DWR Sutter Yard - a Freitag) 6/4/2014 Same as last inspection. (DWR Sutter Yard - a Freitag) 11/12/2013 Same as last inspection. (DWR Sutter Yard - a Freitag) 6/6/2013 Same as last inspection. (DWR Sutter Yard - a Freitag) 10/31/2012 Vegetation needs to be cleared from outlet. (DWR UCIP - w wyllie)  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 17 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS) toe. Concrete headwalls at both the LS and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, (Station 902+50). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 5, April 1950, (Station 902+50)].  
FS Date: 6/1/2017 9:42:13 AM

Photo 2 of 3 : UCIP\_SP\_2018\_52012\_68497.jpg



Flap gate on WS slope.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	1.91	Rating **	U	Issue No.	70 (cont)
LM End	1.91	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.537455 °	39.537455 °
				-121.853061 °	-121.853061 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:52012  
DS\_ID:1645  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 5/18/2017 LS erosion still present. Ws flap gate has been completely buried by sediment after the high water flows through the area. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag) 11/14/2016 LS erosion still present and is into the prism of the levee. WS flap gate was still mostly buried and non-operational. (DWR Sutter Yard- A Freitag) 5/23/2016 The tree that was overgrowing the WS flapgate has been removed. Flap gate was half buried and unable to open. Erosion on the LS is still present. (DWR Sutter Yard - a Freitag) 7/28/2015 LS inlet is underwater but there appears to be erosion behind the LS headwall. WS pipe end and flap gate are completely overgrown and inaccessible for inspection. (DWR Sutter Yard - a Freitag) 11/25/2014 Tree is overgrowing the WS pipe outlet.. Needs to be trimmed back. (DWR Sutter Yard - a Freitag) 6/4/2014 Same as last inspection. (DWR Sutter Yard - a Freitag) 11/12/2013 Same as last inspection. (DWR Sutter Yard - a Freitag) 6/6/2013 Same as last inspection. (DWR Sutter Yard - a Freitag) 10/31/2012 Vegetation needs to be cleared from outlet. (DWR UCIP - wwylye)  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 17 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS) toe. Concrete headwalls at both the LS and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, (Station 902+50). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 5, April 1950, (Station 902+50)].  
FS Date: 6/1/2017 9:42:13 AM

Photo 3 of 3 : UCIP\_SP\_2018\_52012\_68496.jpg



Flap gate on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	2.49	Rating **	A	Issue No.	63
LM End	2.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.544242 °	39.544242 °
				-121.846607 °	-121.846607 °
DWR ID	DWR_MA0005_02_s_2018_63				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_63\_20180402\_00098.jpg



View of native vegetation on both slopes.

LM Start	2.87	Rating **	M	Issue No.	71	
LM End	2.87	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.549014 °	39.549014 °	
				-121.842866 °	-121.842866 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52013 DS_ID:1646 EP_NO: 3927 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Appears to have been abandoned. Pump is missing from the pier and there is no sign of the riser and siphon breaker on the LS shoulder. (DWR Sutter Yard- A/Freitag)11/14/2016 Appears abandoned- pump removed from pier in Butte Creek also riser and siphon breaker are no longer seen on LS shoulder. (DWR Sutter Yard- A/Freitag)5/23/2016 Crossing appears to have been abandoned and removed. Could not locate the LS riser and siphon breaker.7/28/2015 No pump present during any of my inspections. Crossing appears abandoned. CMP riser has been knocked out of levee. 11/25/2014 Same as last inspection.6/04/2014 Same as last inspection.11/12/2013 Same as last inspection.6/6/2013 Same as last inspection.10/31/2012 Pump does not appear to be in use or is abandoned. FIELD_STRUCT_DESC: 20-inch (not 18-inch as referenced in the levee log) exterior coated steel irrigation pipe through the levee, 2.4 feet below the crown. Siphon breaker in a 24-inch corrugated metal riser on the landside (LS) shoulder. Portable pump on the waterside (WS). (Permit No. 3927, 1962 - Arrowhead Ranch). [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 6/1/2017 9:46:03 AM						

Photo 1 of 3 : UCIP\_SP\_2018\_52013\_68057.jpg



Air vent in 24-inch CMP riser on LS shoulder.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	2.87	Rating **	M	Issue No.	71 (cont)	
LM End	2.87	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.549014 °	39.549014 °	
				-121.842866 °	-121.842866 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52013 DS_ID:1646 EP_NO: 3927 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Appears to have been abandoned. Pump is missing from the pier and there is no sign of the riser and siphon breaker on the LS shoulder. (DWR Sutter Yard- A Freitag)11/14/2016 Appears abandoned- pump removed from pier in Butte Creek also riser and siphon breaker are no longer seen on LS shoulder. (DWR Sutter Yard- A Freitag)5/23/2016 Crossing appears to have been abandoned and removed. Could not locate the LS riser and siphon breaker.7/28/2015 No pump present during any of my inspections. Crossing appears abandoned. CMP riser has been knocked out of levee. 11/25/2014 Same as last inspection.6/04/2014 Same as last inspection.11/12/2013 Same as last inspection.6/6/2013 Same as last inspection.10/31/2012 Pump does not appear to be in use or is abandoned. FIELD_STRUCT_DESC: 20-inch (not 18-inch as referenced in the levee log) exterior coated steel irrigation pipe through the levee, 2.4 feet below the crown. Siphon breaker in a 24-inch corrugated metal riser on the landside (LS) shoulder. Portable pump on the waterside (WS). (Permit No. 3927, 1962 - Arrowhead Ranch). [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 6/1/2017 9:46:03 AM						

LM Start	<b>2.87</b>	Rating **	M	Issue No.	<b>71 (cont)</b>
LM End	<b>2.87</b>	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_52013\_68056.jpg



Pump on metal pier at WS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_52013\_74602.jpg



Spot where CMP riser was on the LS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	3.10	Rating **	M	Issue No.	64
LM End	3.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.551747 °	39.551747 °
				-121.840568 °	-121.840568 °
DWR ID	DWR_MA0005_02_s_2018_64				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree from the landside slope and toe.					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_64\_20180402\_00099.jpg



View of the tree on the landside slope and toe.

LM Start	3.10	Rating **	M	Issue No.	7
LM End	4.04	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.551780 °	39.562341 °
				-121.840507 °	-121.829507 °
DWR ID	DWR_MA0005_02_s_2012_7				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_7\_20180305\_00004.jpg



View of the agricultural ditch along the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	4.03	Rating **	A/W	Issue No.	72
LM End	4.03	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.562271 °	39.562271 °
				-121.829610 °	-121.829610 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:52014 DS_ID:1647 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Tree near the LS screw gate could use some trimming. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/23/2016 Crossing appears to be in good condition.7/28/2015 Pipe appears in good condition. No noticeable issues to report.6/6/2013 Same as last inspection.11/12/2013 Same as last inspection.6/04/2014 Same as last inspection.11/25/2014 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 14.3 feet below the crown. Slide gate on the landside (LS). Flap gate on the waterside (WS). Concrete headwall at the LS toe. Concrete splash apron on the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 5+20""A"""). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 4, April 1950, (Station 5+20""A""").] FS Date: 6/1/2017 9:47:13 AM					

LM Start	<b>4.03</b>	Rating **	A/W	Issue No.	<b>72 (cont)</b>
LM End	<b>4.03</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_52014\_68064.jpg



Concrete headwall and slide gate at LS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_52014\_68063.jpg



Concrete headwall and slide gate at LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	4.03	Rating **	A/W	Issue No.	72 (cont)	
LM End	4.03	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.562271 °	39.562271 °	
				-121.829610 °	-121.829610 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52014						
DS_ID:1647						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 5/18/2017 Crossing appears to be in good condition.						
Tree near the LS screw gate could use some trimming. Pipe has been						
selected to be internally cleaned and inspected as part of the DMP						
project. (DWR Sutter Yard- A/Freitag)11/14/2016 Crossing appears to						
be in good condition. (DWR Sutter Yard- A/Freitag)5/23/2016						
Crossing appears to be in good condition.7/28/2015 Pipe appears in						
good condition. No noticeable issues to report.6/6/2013 Same as						
last inspection.11/12/2013 Same as last inspection.6/04/2014						
Same as last inspection.11/25/2014 Same as last inspection.						
FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe						
through the levee, 14.3 feet below the crown. Slide gate on the landside						
(LS). Flap gate on the waterside (WS). Concrete headwall at the LS toe.						
Concrete splash apron on the WS. [Additional Reference(s): DWR						
Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955,						
(Station 5+20""A"""). USACE As-Built Drawing No. 50-4-2637, Exhibit B,						
Sheet 4, April 1950, (Station 5+20""A""").].						
FS Date: 6/1/2017 9:47:13 AM						

Photo 3 of 3 : UCIP\_SP\_2018\_52014\_68062.jpg



Flap gate at outlet on WS berm.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	5.35	Rating **	M	Issue No.	73
LM End	5.35	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.576008 °	39.576008 °
				-121.812599 °	-121.812599 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:52042 DS_ID:1650 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Abandoned- only WS riser found. (DWR Sutter Yard- A Freitag) 11/14/2016 Abandoned. (DWR Sutter Yard- A Freitag) 5/23/2016 Abandoned 7/28/2015 Abandoned- still cannot locate a LS ans WS pipe end.11/25/2014 Same as last inspection.6/04/2014 Same as last inspection.11/12/2013 Same as last inspection.6/6/2013 Same as last inspection.10/31/2012 Appears abandoned. Unable to locate outfall on WS. Unable to locate inlet on LS. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12.5 feet below the crown. Slide gate and flap gate in a 56-inch corrugated metal riser on the waterside (WS) berm. Flap gate on the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 688+40). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 688+40)]. FS Date: 6/1/2017 1:00:06 PM					

Photo 1 of 2 : UCIP\_SP\_2018\_52042\_68105.jpg



Slide gate and flap gate inside CMP riser on WS berm.

LM Start	5.35	Rating **	M	Issue No.	73 (cont)
LM End	5.35	Issue Type +	Ma	Location *	

Photo 2 of 2 : UCIP\_SP\_2018\_52042\_68104.jpg



56-inch CMP riser on WS berm.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	5.91	Rating **	M	Issue No.	34
LM End	5.91	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.583052 °	39.583052 °
				-121.807423 °	-121.807423 °
DWR ID	DWR_MA0005_02_s_2015_34				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings and broken metal and concrete pipes from the landside toe.					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_34\_20180305\_00011.jpg



View of the prunings along the landside toe.

LM Start	6.47	Rating **	A/W	Issue No.	74
LM End	6.47	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.589146 °	39.589146 °
				-121.800463 °	-121.800463 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:52049 DS_ID:1654 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/23/2016 Crossing appears to be in good condition. 7/28/2015 Crossing appears in good condition. No noticeable issues to report. 11/24/2014 Same as last inspection. 6/04/2014 Same as last inspection. 11/12/2013 Same as last inspection. 6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.4 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls at both the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 627+00). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 627+00)]. FS Date: 6/1/2017 1:10:07 PM					

Photo 1 of 3 : UCIP\_SP\_2018\_52049\_68122.jpg



Flap gate on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	6.47	Rating **	A/W	Issue No.	74 (cont)	
LM End	6.47	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.589146 °	39.589146 °	
				-121.800463 °	-121.800463 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52049 DS_ID:1654 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/23/2016 Crossing appears to be in good condition.7/28/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/04/2014 Same as last inspection.11/12/2013 Same as last inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.4 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls at both the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 627+00). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 627+00)]. FS Date: 6/1/2017 1:10:07 PM						

Photo 2 of 3 : UCIP\_SP\_2018\_52049\_68121.jpg



Headwall on LS toe.

LM Start	<b>6.47</b>	Rating **	A/W	Issue No.	<b>74 (cont)</b>
LM End	<b>6.47</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_52049\_68120.jpg



Headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	6.90	Rating **	M	Issue No.	65
LM End	6.90	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.594827 °	39.594827 °
				-121.797080 °	-121.797080 °
DWR ID	DWR_MA0005_02_s_2018_65				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_65\_20180402\_00100.jpg



View of the prunings along the landside toe.

LM Start	7.74	Rating **	U	Issue No.	53
LM End	7.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.605088 °	39.605088 °
				-121.788569 °	-121.788569 °
DWR ID	DWR_MA0005_02_f_2016_53				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : SP\_2018\_MA0005\_197\_53\_20180305\_00025.jpg



View of the rodent holes along the landside slope.

LM Start	<b>7.74</b>	Rating **	U	Issue No.	<b>53 (cont)</b>
LM End	<b>7.74</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_MA0005\_197\_53\_20180305\_00026.jpg



View of the rodent holes along the crown and waterside slope.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	7.75	Rating **	M	Issue No.	35
LM End	7.75	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.605205 °	39.605205 °
				-121.788453 °	-121.788453 °
DWR ID	DWR_MA0005_02_s_2015_35				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside slope.					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_35\_20180305\_00012.jpg



View of the prunings along the landside slope.

LM Start	7.98	Rating **	M	Issue No.	13
LM End	7.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.607710 °	39.607710 °
				-121.785868 °	-121.785868 °
DWR ID	DWR_MA0005_02_s_2012_13				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 2 : SP\_2018\_MA0005\_197\_13\_20180305\_00005.jpg



View of the vehicle erosion along the landside slope.

LM Start	<b>7.98</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>7.98</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2018\_MA0005\_197\_13\_20180305\_00006.jpg



View of the vehicle erosion along the slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	8.00	Rating **	M	Issue No.	75
LM End	8.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.607802 °	39.607802 °
				-121.785597 °	-121.785597 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:52052 DS_ID:1656 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 LS inlet is almost completely full of soil. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 LS inlet almost completely full of soil. (DWR Sutter Yard- AFreitag)5/23/2016 LS end is almost completel full of soil.7/28/2015 Pipe is still over 3/4 full of soil. 11/24/2014 Same as last inspection.6/04/2014 Same as last inspection.11/12/2013 Same as last inspection.6/6/2013 Same as last inspection.10/31/2012 Pipe 3/4 full with soil on LS. FIELD_STRUCT_DESC: 24-inch (not 18-inch as shown in as-built drawing) corrugated metal drainage pipe through the levee, 6.7 feet below the crown. Concrete headwall at the landside (LS) toe. Flap gate on the waterside (WS). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 379+98). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 2, April 1950, (Station 550+60)]. FS Date: 6/1/2017 1:15:55 PM					

LM Start	<b>8.00</b>	Rating **	M	Issue No.	<b>75 (cont)</b>
LM End	<b>8.00</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_52052\_68129.jpg



Flap gate at WS toe.

Photo 2 of 2 : UCIP\_SP\_2018\_52052\_68128.jpg



Concrete headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	8.06	Rating **	M	Issue No.	40
LM End	8.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.608563 °	39.608563 °
				-121.785058 °	-121.785058 °
DWR ID	DWR_MA0005_02_f _ 2014_40				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_40\_20180305\_00016.jpg



View of the vehicle slope instability along the landside slope.

LM Start	8.11	Rating **	A/W	Issue No.	76	
LM End	8.11	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.609162 °	39.609162 °	
				-121.784647 °	-121.784647 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52059 DS_ID:1662 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/12/2016 Crossing appears to be in good condition.7/30/2015 Crossing is in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection..6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 16.3 feet below the crown. Flap gate on the waterside (WS). Concrete "U" shaped headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 374+90). USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 13, April 1957, (Station 374+90)]. FS Date: 6/1/2017 1:25:58 PM						

Photo 1 of 3 : UCIP\_SP\_2018\_52059\_68394.jpg



Concrete inlet on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	8.11	Rating **	A/W	Issue No.	76 (cont)	
LM End	8.11	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.609162 °		39.609162 °
				-121.784647 °		-121.784647 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52059 DS_ID:1662 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/12/2016 Crossing appears to be in good condition.7/30/2015 Crossing is in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection. .6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 16.3 feet below the crown. Flap gate on the waterside (WS). Concrete ""U"" shaped headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 374+90). USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 13, April 1957, (Station 374+90)]. FS Date: 6/1/2017 1:25:58 PM						

Photo 2 of 3 : UCIP\_SP\_2018\_52059\_68393.jpg



Concrete inlet on LS toe.

LM Start	8.11	Rating **	A/W	Issue No.	76 (cont)
LM End	8.11	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_SP\_2018\_52059\_68392.jpg



Concrete outlet and flap gate on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	8.34	Rating **	M	Issue No.	54
LM End	8.34	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.612230 °	39.612230 °
				-121.782897 °	-121.782897 °
DWR ID	DWR_MA0005_02_f_2016_54				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside slope.					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_54\_20180305\_00027.jpg



View of the prunings along the landside toe.

LM Start	8.67	Rating **	M	Issue No.	47
LM End	8.67	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.616370 °	39.616370 °
				-121.779779 °	-121.779779 °
DWR ID	DWR_MA0005_02_s_2016_47				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside slope.					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_47\_20180305\_00022.jpg



View of the prunings along the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	<b>8.77</b>	Rating **	A/W	Issue No.	<b>77</b>
LM End	<b>8.77</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.617747 °	39.617747 °	
			-121.778964 °	-121.778964 °	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:52061  
DS\_ID:1663  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag) 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 5/12/2016 Crossing appears to be in good condition. 7/30/2015 Crossing appears in good condition. No noticeable issues to report. 11/24/2014 Same as last inspection. 6/4/2014 Same as last inspection. 11/13/2013 Damaged pipe section was dug up and replaced. New WS flapgate with u-shaped wingwall installed on end of pipe. 6/6/2013 Same as last inspection. Plans have been made to repair during summer of 2013 before high water season. 11/01/2012 Pipe rusted through along bottom at WS outlet. Sink hole over pipe on WS berm. WS headwall eroded eternally around backside of headwall.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on both the landside (LS) and the WS.  
[Additional Reference(s): DWR Levee Log, 1990. USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 11, (Station 340+04)].  
FS Date: 6/1/2017 1:27:46 PM

LM Start	<b>8.77</b>	Rating **	A/W	Issue No.	<b>77 (cont)</b>
LM End	<b>8.77</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_52061\_68397.jpg



Concrete U-shaped headwall on LS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_52061\_68396.jpg



Concrete U-shaped headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	8.77	Rating **	A/W	Issue No.	77 (cont)	
LM End	8.77	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.617747 °	39.617747 °	
				-121.778964 °	-121.778964 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52061 DS_ID:1663 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)5/12/2016 Crossing appears to be in good condition. 7/30/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Damaged pipe section was dug up and replaced. New WS flapgate with u-shaped wingwall installed on end of pipe.6/6/2013 Same as last inspection. Plans have been made to repair during summer of 2013 before high water season.11/01/2012 Pipe rusted through along bottom at WS outlet. Sink hole over pipe on WS berm. WS headwall eroded eternally around backside of headwall. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 11, (Station 340+04)]. FS Date: 6/1/2017 1:27:46 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_52061\_68395.jpg



Concrete U shaped outlet and flap gate at WS of Berm.

LM Start	8.77	Rating **	M	Issue No.	46
LM End	8.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.617750 °	39.617750 °
				-121.778981 °	-121.778981 °
DWR ID	DWR_MA0005_02_s_2016_46				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside slope.					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_46\_20180305\_00021.jpg



View of the prunings along the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	8.80	Rating **	M	Issue No.	78
LM End	8.80	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.618163 °	39.618163 °
				-121.778745 °	-121.778745 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:52062 DS_ID:1664 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 No LS slide gate but not sure its even needed. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 LS slide gate still missing. Rest of crossing appears in good condition. (DWR Sutter Yard- AFreitag)5/12/2016 LS inlet was unburied. Slide gate still missing7/30/2015 LS inlet is still buried.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 LS inlet is buried under soil and covered with brambles. Slide gate missing from LS. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS). Concrete headwall on the WS. Concrete headwall on the landside (LS), not found. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 338+04). USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 11, April 1957, (Station 338+04)]. FS Date: 6/1/2017 1:29:34 PM					

LM Start	<b>8.80</b>	Rating **	M	Issue No.	<b>78 (cont)</b>
LM End	<b>8.80</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_52062\_68406.jpg



WS outlet and concrete U shaped headwall.

Photo 2 of 3 : UCIP\_SP\_2018\_52062\_68404.jpg



Brambles and soil over pipe at inlet.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	8.80	Rating **	M	Issue No.	78 (cont)	
LM End	8.80	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.618163 °	39.618163 °	
				-121.778745 °	-121.778745 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52062 DS_ID:1664 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 No LS slide gate but not sure its even needed. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A/Freitag)11/14/2016 LS slide gate still missing. Rest of crossing appears in good condition. (DWR Sutter Yard- A/Freitag)5/12/2016 LS inlet was unburied. Slide gate still missing7/30/2015 LS inlet is still buried.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 LS inlet is buried under soil and covered with brambles. Slide gate missing from LS. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS). Concrete headwall on the WS. Concrete headwall on the landside (LS), not found. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 338+04). USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 11, April 1957, (Station 338+04)]. FS Date: 6/1/2017 1:29:34 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_52062\_68403.jpg



Concrete U shaped headwall and flap gate at WS toe.

LM Start	9.09	Rating **	M	Issue No.	45
LM End	9.09	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.622017 °	39.622017 °
				-121.776552 °	-121.776552 °
DWR ID	DWR_MA0005_02_s_2016_45				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_45\_20180305\_00020.jpg



Remove equipment and materials from the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	9.12	Rating **	A/W	Issue No.	79
LM End	9.12	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.622377 °	39.622377 °
				-121.776327 °	-121.776327 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:52063 DS_ID:1665 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/12/2016 Crossing appears to be in good condition. 7/30/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 321+20)]. FS Date: 6/1/2017 1:32:51 PM					

Photo 1 of 3 : UCIP\_SP\_2018\_52063\_68413.jpg



Concrete U shaped headwall and flap gate on WS toe.

LM Start	9.12	Rating **	A/W	Issue No.	79 (cont)
LM End	9.12	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_52063\_68412.jpg



Concrete U shaped headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	9.12	Rating **	A/W	Issue No.	79 (cont)	
LM End	9.12	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.622377 °	39.622377 °	
				-121.776327 °	-121.776327 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52063 DS_ID:1665 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)5/12/2016 Crossing appears to be in good condition. 7/30/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 321+20)]. FS Date: 6/1/2017 1:32:51 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_52063\_68411.jpg



Concrete U shaped headwall on LS toe.

LM Start	9.29	Rating **	M	Issue No.	66
LM End	9.29	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.624688 °	39.624688 °
				-121.775393 °	-121.775393 °
DWR ID	DWR_MA0005_02_s_2018_66				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from the landside toe.					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_66\_20180402\_00101.jpg



View of the prunings along the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	9.44	Rating **	M	Issue No.	80
LM End	9.44	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.626894 °	39.626894 °
				-121.775180 °	-121.775180 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:52064  
DS\_ID:1666  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/18/2017 LS inlet half full of soil and WS flap gate half buried by sediment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/14/2016 LS pipe inlet is half full of soil. WS flap gate shut but half buried by sediment. (DWR Sutter Yard-AFreitag)5/12/2016 Pipe is half full of soil.7/30/2015 Pipe is 1/4 to 1/2 full of soil still.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe 1/2 filled with soil.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS). Concrete "U" shaped headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 304+10). USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 3, April 1957, (Station 304+10)].  
FS Date: 6/1/2017 1:34:12 PM

LM Start	<b>9.44</b>	Rating **	M	Issue No.	<b>80 (cont)</b>
LM End	<b>9.44</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_52064\_68417.jpg



View of outlet looking toward WS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_52064\_68416.jpg



View of inlet on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	9.44	Rating **	M	Issue No.	80 (cont)	
LM End	9.44	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.626894 °	39.626894 °	
				-121.775180 °	-121.775180 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52064 DS_ID:1666 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 LS inlet half full of soil and WS flap gate half buried by sediment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/14/2016 LS pipe inlet is half full of soil. WS flap gate shut but half buried by sediment. (DWR Sutter Yard-AFreitag)5/12/2016 Pipe is half full of soil.7/30/2015 Pipe is 1/4 to 1/2 full of soil still.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe 1/2 filled with soil. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS). Concrete ""U"" shaped headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 304+10). USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 3, April 1957, (Station 304+10)]. FS Date: 6/1/2017 1:34:12 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_52064\_68415.jpg



Concrete U-shaped headwall on LS toe.

LM Start	9.72	Rating **	M	Issue No.	56
LM End	9.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.630937 °	39.630937 °
				-121.774960 °	-121.774960 °
DWR ID	DWR_MA0005_02_f _ 2016_56				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_56\_20180305\_00028.jpg



View of the prunings along the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	10.38	Rating **	M	Issue No.	3
LM End	10.38	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.639018 °	39.639018 °
				-121.781458 °	-121.781458 °
DWR ID	DWR_MA0005_02_s_2012_3				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_3\_20180305\_00002.jpg



View of the prunings along the landside toe.

LM Start	10.47	Rating **	M	Issue No.	57
LM End	10.47	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.640156 °	39.640156 °
				-121.782397 °	-121.782397 °
DWR ID	DWR_MA0005_02_f_2016_57				
Comment Code					
MA : Material					
Inspector Comment					
Remove broken concrete pipes from the landside toe.					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_57\_20180305\_00029.jpg



View of the broken concrete pipes along the landside toe.

LM Start	10.63	Rating **	M	Issue No.	18
LM End	10.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.642061 °	39.642061 °
				-121.783861 °	-121.783861 °
DWR ID	DWR_MA0005_02_s_2012_18				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_18\_20180305\_00007.jpg



View of the vehicle erosion along the slope of the levee.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	10.90	Rating **	U	Issue No.	41
LM End	10.93	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.645508 °	39.645858 °
				-121.786515 °	-121.786742 °
DWR ID	DWR_MA0005_02_f_2014_41				
Comment Code					
FE : Fence					
Inspector Comment					
Remove or apply for permit for the fence along landside toe					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_41\_20180305\_00017.jpg



View of the new fence along the landside toe.

LM Start	10.95	Rating **	M	Issue No.	58
LM End	10.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.646045 °	39.646045 °
				-121.786927 °	-121.786927 °
DWR ID	DWR_MA0005_02_f_2016_58				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_58\_20180305\_00030.jpg



View of the damaged landside slope.

LM Start	10.96	Rating **	M	Issue No.	59
LM End	10.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.646220 °	39.646598 °
				-121.787055 °	-121.787365 °
DWR ID	DWR_MA0005_02_f_2016_59				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	11.04	Rating **	U	Issue No.	60
LM End	11.04	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.647238 °	39.647238 °
				-121.787866 °	-121.787866 °
DWR ID	DWR_MA0005_02_f_2016_60				
Comment Code					
FE : Fence					
Inspector Comment					
Apply for permit or remove the fence post.					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_60\_20180305\_00031.jpg



View of a newly constructed fence.

LM Start	11.05	Rating **	M	Issue No.	26
LM End	11.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.647400 °	39.647400 °
				-121.787825 °	-121.787825 °
DWR ID	DWR_MA0005_02_f_2012_26				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	11.10	Rating **	M	Issue No.	36
LM End	11.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.647913 °	39.647913 °
				-121.788330 °	-121.788330 °
DWR ID	DWR_MA0005_02_s_2015_36				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_36\_20180305\_00013.jpg



Remove the tree log from the landside toe.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	11.12	Rating **	M	Issue No.	81
LM End	11.12	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.648169 °	39.648169 °
				-121.788541 °	-121.788541 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:52069  
DS\_ID:1670  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/18/2017 Appears abandoned- Slide gates in WS riser and LS distribution box missing. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Appears abandoned- Slide gates in WS riser and LS distribution box missing. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition.7/30/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 New flap gate installed on WS end of pipe. FIELD\_STRUCT\_DESC: 24-inch corrugated metal (not 18-inch concrete as shown in the as-built drawing) irrigation pipe through the levee, 9.7 feet below the crown. Slide gate in corrugated metal riser on the waterside (WS) slope. Flap gate on the WS toe. Slide gate in concrete distribution box on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 215+65). USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 2, April 1957, (Station 215+65)].  
FS Date: 6/1/2017 1:43:12 PM

LM Start	11.12	Rating **	M	Issue No.	81 (cont)
LM End	11.12	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_52069\_68429.jpg



CM riser on WS shoulder-missing slide gate.

Photo 2 of 3 : UCIP\_SP\_2018\_52069\_68433.jpg



Distribution box on LS toe. Missing slide gate at pipe entrance.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	11.12	Rating **	M	Issue No.	81 (cont)	
LM End	11.12	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.648169 °	39.648169 °	
				-121.788541 °	-121.788541 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52069 DS_ID:1670 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Appears abandoned- Slide gates in WS riser and LS distribution box missing. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/14/2016 Appears abandoned- Slide gates in WS riser and LS distribution box missing. (DWR Sutter Yard- A Freitag)5/11/2016 Crossing appears to be in good condition.7/30/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 New flap gate installed on WS end of pipe. FIELD_STRUCT_DESC: 24-inch corrugated metal (not 18-inch concrete as shown in the as-built drawing) irrigation pipe through the levee, 9.7 feet below the crown. Slide gate in corrugated metal riser on the waterside (WS) slope. Flap gate on the WS toe. Slide gate in concrete distribution box on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 215+65). USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 2, April 1957, (Station 215+65)]. FS Date: 6/1/2017 1:43:12 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_52069\_68432.jpg



View of pipe from WS looking toward LS.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	11.12	Rating **	M	Issue No.	82 (cont)	
LM End	11.12	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.648185 °	39.648185 °	
				-121.788563 °	-121.788563 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52070 DS_ID:1671 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Abandoned- WS end still buried. (DWR Sutter Yard- A Freitag)11/14/2016 Appears abandoned. (DWR Sutter Yard- A Freitag)5/11/2016 Abandoned crossing7/30/2015 Abandoned crossing. Unable to locate the WS end of pipe.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe appears abandoned. It needs to be abandoned properly. FIELD_STRUCT_DESC: 30-inch corrugated metal irrigation pipe through the levee, 9.4 feet below the crown. Slide gate in a 42-inch corrugated metal riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 215+46)]. FS Date: 6/1/2017 1:45:09 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_52070\_68434.jpg



Concrete pipe at edge of creek on WS.

LM Start	11.57	Rating **	M	Issue No.	6
LM End	11.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.654349 °	39.657142 °
				-121.789531 °	-121.788690 °
DWR ID	DWR_MA0005_02_s_2012_6				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_6\_20180305\_00003.jpg



View of the ditch along the Landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	11.81	Rating **	C	Issue No.	68
LM End	11.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.657618 °	39.657618 °
				-121.788495 °	-121.788495 °
DWR ID	DWR_MA0005_02_f_2017_68				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
The rodent holes was repaired along the landside slope.					

No Photos

LM Start	12.80	Rating **	M	Issue No.	83	
LM End	12.80	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.670982 °	39.670982 °	
				-121.783103 °	-121.783103 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52072 DS_ID:1673 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Abandoned- needs to be done properly. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A/Freitag)11/14/2016 Abandoned- needs a cover for standpipe. (DWR Sutter Yard- A/Freitag)5/11/2016 Abandoned crossing. Needs a cover fo the WS riser.8/3/2015 Crossing appears abandoned. Only the slide gate inside riser on the WS shoulder could be found. Riser needs a cover made for it.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Slide gate top and stem were repaired to make gate operational.6/6/2013 New slidegate is planned to be installed during summer of 2013.11/01/2012 Slide gate on WS shoulder bent and damaged (inoperable) Pipe appears abandoned. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 126+91)]. FS Date: 6/1/2017 1:52:47 PM						

Photo 1 of 3 : UCIP\_SP\_2018\_52072\_68465.jpg



Broken slide gate in CM riser on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	12.80	Rating **	M	Issue No.	83 (cont)
LM End	12.80	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.670982 °	39.670982 °
				-121.783103 °	-121.783103 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:52072  
DS\_ID:1673  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/18/2017 Abandoned- needs to be done properly. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Abandoned- needs a cover for standpipe. (DWR Sutter Yard- AFreitag)5/11/2016 Abandoned crossing. Needs a cover to the WS riser.8/3/2015 Crossing appears abandoned. Only the slide gate inside riser on the WS shoulder could be found. Riser needs a cover made for it.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Slide gate top and stem were repaired to make gate operational.6/6/2013 New slidegate is planned to be installed during summer of 2013.11/01/2012 Slide gate on WS shoulder bent and damaged (inoperable) Pipe appears abandoned. FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 126+91)].  
FS Date: 6/1/2017 1:52:47 PM

LM Start	<b>12.80</b>	Rating **	M	Issue No.	<b>83 (cont)</b>
LM End	<b>12.80</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_SP\_2018\_52072\_68464.jpg



Abandoned headwall on LS toe.

Photo 3 of 3 : UCIP\_SP\_2018\_52072\_68463.jpg



Broken slide gate in CM riser on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	12.83	Rating **	M	Issue No.	19
LM End	12.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.671239 °	39.671239 °
				-121.782486 °	-121.782486 °
DWR ID	DWR_MA0005_02_s_2012_19				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_19\_20180305\_00008.jpg



View of the brush pile at the toe of the levee.

LM Start	13.02	Rating **	M	Issue No.	44
LM End	13.02	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.673685 °	39.673685 °
				-121.781313 °	-121.781313 °
DWR ID	DWR_MA0005_02_s_2016_44				
Comment Code					
FW : Firewood					
Inspector Comment					

No Photos

LM Start	13.04	Rating **	M	Issue No.	5
LM End	13.04	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.673956 °	39.673956 °
				-121.781278 °	-121.781278 °
DWR ID	DWR_MA0005_02_s_2012_5				
Comment Code					
EQ : Equipment					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	13.06	Rating **	M	Issue No.	42
LM End	13.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.674219 °	39.674219 °
				-121.781188 °	-121.781188 °
DWR ID	DWR_MA0005_02_s_2016_42				
Comment Code					
FW : Firewood					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_42\_20180305\_00018.jpg



View of the firewood pile at the landside toe.

LM Start	13.15	Rating **	M	Issue No.	22
LM End	13.15	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.675311 °	39.675311 °
				-121.780371 °	-121.780371 °
DWR ID	DWR_MA0005_02_s_2013_22				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_22\_20180305\_00009.jpg



View of the prunings along the waterside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	13.15	Rating **	M	Issue No.	84
LM End	13.15	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.675379 °	39.675379 °
				-121.780319 °	-121.780319 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:52073 DS_ID:1674 EP_NO: 1291 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Appears abandoned- needs to be done properly. (DWR Sutter Yard- AFreitag)11/14/2016 Appears abandoned- needs to be done so properly (DWR Sutter Yard- AFreitag)5/11/2016 Appears to be an abandoned crossing.8/3/2015 Pipe appears to be abandoned. Pump on WS berm is still missing.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe appears to be abandoned. No pump found. Pipe should be abandoned properly. FIELD_STRUCT_DESC: 24-inch corrugated metal (not 14-inch concrete as described in the permit) irrigation pipe through the levee, 9 feet below the crown. Slide gate in a 36-inch corrugated metal riser on the waterside (WS) slope. Pump and a 36-inch concrete standpipe on the WS. (Originally installed under Permit No. 1291, 1948 - J. P. Hansen). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 106+93)]. FS Date: 6/1/2017 1:54:43 PM					

Photo 1 of 1 : UCIP\_SP\_2018\_52073\_68488.jpg



Slide gate in CM riser on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	13.31	Rating **	M	Issue No.	85	
LM End	13.31	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.677309 °	39.677309 °	
				-121.778668 °	-121.778668 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52074 DS_ID:1675 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 LS visible but nothing found on WS of levee. (DWR Sutter Yard- A Freitag)11/14/2016 Still unable to locate and WS appurtances. (DWR Sutter Yard- A Freitag)5/11/2106 LS seems fine but nothing was found on the WS8/3/2015 Still unable to locate anything on the WS.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Unable to locate pipe on WS. FIELD_STRUCT_DESC: 8-inch steel irrigation pipe, 4 feet below the crown. Pipe is sleeved with a 5-inch aluminum irrigation pipe. Pump on a concrete pad on the landside (LS) slope. Butterfly valve on the LS slope. [Additional Reference(s): DWR Levee Log, 1990]. FS Date: 6/1/2017 1:56:04 PM						

Photo 1 of 1 : UCIP\_SP\_2018\_52074\_68489.jpg



Enter photo 1 description or comment here.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	13.40	Rating **	A/W	Issue No.	86
LM End	13.40	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.678550 °	39.678550 °
				-121.778339 °	-121.778339 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:52083 DS_ID:1679 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition. 8/3/2015 Crossing appears in good condition. No noticeable issues to report.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14.5 feet below the crown. Concrete ""U"" shaped headwall on the waterside (WS). Flap gate on the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 93+78)]. FS Date: 6/1/2017 2:09:55 PM					

LM Start	<b>13.40</b>	Rating **	A/W	Issue No.	<b>86 (cont)</b>
LM End	<b>13.40</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_52083\_68531.jpg



Inlet relocated after bridge replacement away from LS toe.

Photo 2 of 3 : UCIP\_SP\_2018\_52083\_68530.jpg



Inlet 50-feet NW of levee crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	13.40	Rating **	A/W	Issue No.	86 (cont)	
LM End	13.40	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.678550 °	39.678550 °	
				-121.778339 °	-121.778339 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52083						
DS_ID:1679						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 5/18/2017 Crossing appears to be in good condition.						
Pipe has been selected to be internally cleaned and inspected as part						
of the DMP project. (DWR Sutter Yard- A Freitag)11/14/2016						
Crossing appears to be in good condition. (DWR Sutter Yard-						
A Freitag)5/11/2016 Crossing appears to be in good						
condition.8/3/2015 Crossing appears in good condition. No						
noticeable issues to report.11/25/2014 Same as last						
inspection.6/4/2014 Same as last inspection.11/13/2013 Same as						
last inspection.6/6/2013 Same as last inspection.						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe						
through the levee, 14.5 feet below the crown. Concrete ""U"" shaped						
headwall on the waterside (WS). Flap gate on the WS. [Additional						
Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M						
Manual 516, April 1960, (Station 93+78)].						
FS Date: 6/1/2017 2:09:55 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_52083\_68533.jpg



Concrete U-shaped headwall and flap gate at WS slope.

LM Start	13.54	Rating **	M	Issue No.	61
LM End	13.54	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.680579 °	39.680579 °
				-121.778267 °	-121.778267 °
DWR ID	DWR_MA0005_02_f_2016_61				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_61\_20180305\_00032.jpg



View of the prunings along the landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	13.76	Rating **	A/W	Issue No.	20
LM End	13.95	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.683630 °	39.686221 °
				-121.777916 °	-121.779051 °
DWR ID	DWR_MA0005_02_s_2012_20				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

No Photos

LM Start	13.78	Rating **	M	Issue No.	87	
LM End	13.78	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.683896 °	39.683896 °	
				-121.778183 °	-121.778183 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52084						
DS_ID:1680						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 5/18/2017 Unable to locate. (DWR Sutter Yard-AFreitag)11/14/2016 Unable to locate. (DWR Sutter Yard-AFreitag)5/11/2016 Unable to locate.8/3/2015 Unable to locate.11/25/2014 Unable to locate.6/4/2014 Same as last inspection. Unable to locate.11/13/2013 Unable to locate.6/6/2013 Boiler has been removed and pipe buried on LS. Unable to locate.11/01/2012 Pipe appears to be abandoned.						
FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 6.5 feet below the crown. Boiler attached to the landside (LS).						
[Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 73+27)].						
FS Date: 6/1/2017 2:11:21 PM						

Photo 1 of 1 : UCIP\_SP\_2018\_52084\_68534.jpg



Pipe attached at boiler on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	13.94	Rating **	M	Issue No.	88	
LM End	13.94	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.685961 °	39.685961 °	
				-121.779041 °	-121.779041 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52085 DS_ID:1681 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Appears abandoned- if so needs to be done so properly. (DWR Sutter Yard- A Freitag)11/14/2016 Appears abandoned (DWR Sutter Yard- A Freitag)5/11/216 Abandoned crossing8/3/2015 Pipe still appears abandoned.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe appears to be abandoned. FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation pipe through the levee, 7.1 feet below the crown. Siphon breaker in a corrugated metal riser on the landside (LS) slope. One corrugated metal cutoff wall. Pipe is open on both ends. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 65+52)]. FS Date: 6/1/2017 2:12:13 PM						

Photo 1 of 1 : UCIP\_SP\_2018\_52085\_68535.jpg



CM riser with siphon breaker on LS shoulder.

LM Start	14.13	Rating **	M	Issue No.	43
LM End	14.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.688715 °	39.688715 °
				-121.778345 °	-121.778345 °
DWR ID	DWR_MA0005_02_f_2014_43				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
The landowner disked into the slope of the levee.					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_43\_20180305\_00019.jpg



View of the tilling into the landside slope.

<b>* Location</b> LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	14.33	Rating **	U	Issue No.	25
LM End	14.33	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.691580 °	39.691580 °
				-121.779254 °	-121.779254 °
DWR ID	DWR_MA0005_02_s_2012_25				
Comment Code					
BU : Building					
Inspector Comment					
Unpermitted structure.					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_25\_20180305\_00010.jpg



View of the buildings at the landside toe.

LM Start	14.39	Rating **	M	Issue No.	38
LM End	14.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.692284 °	39.692284 °
				-121.779394 °	-121.779394 °
DWR ID	DWR_MA0005_02_s_2016_38				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen trees on W/S slope of levee.					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_38\_20180305\_00014.jpg



5/5/2016: Remove fallen tree from W/S slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	14.46	Rating **	A/W	Issue No.	89 (cont)	
LM End	14.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.693331 °	39.693331 °	
				-121.779556 °	-121.779556 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52086 DS_ID:1682 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition.8/3/2015 Crossing appears in good condition. No noticeable issues to report.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 7.2 feet below the crown. Concrete ""U"" shaped headwall and grouted spillway on the waterside (WS). Slide gate in a 48-inch concrete standpipe on the landside (LS). Flap gate on the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 37+10)]. FS Date: 6/1/2017 2:13:46 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_52086\_68542.jpg



Concrete standpipe and slide gate on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	14.47	Rating **	M	Issue No.	90	
LM End	14.47	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.693406 °		39.693406 °
				-121.779583 °		-121.779583 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52087 DS_ID:1683 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 WS appears to be in good condition. LS inlet is across a ditch and inaccessible for inspection due to dense vegetation and being down a very steep slope. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)5/11/2016 Crossing appears to be in good condition.8/3/2015 Crossing appears in good condition. No noticeable issues to report.6/6/2013 Same as last inspection.11/13/2013 Same as last inspection.6/4/2014 Same as last inspection.11/25/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14.3 feet below the crown. Concrete ""U"" headwalls on both the landside (LS) and the waterside (WS). Flap gate on the WS. Inlet downhill from a concrete lined channel at the low point on the LS toe. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 36+85)]. FS Date: 6/1/2017 2:14:24 PM						

LM Start	<b>14.47</b>	Rating **	M	Issue No.	<b>90 (cont)</b>
LM End	<b>14.47</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_52087\_68541.jpg



Inlet at LS toe.

Photo 2 of 2 : UCIP\_SP\_2018\_52087\_68540.jpg



Outlet at WS toe with flap gate and concrete U-shaped headwall.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	15.00	Rating **	M	Issue No.	91
LM End	15.00	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.700903 °	39.700903 °
				-121.779039 °	-121.779039 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:52090 DS_ID:1685 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. WS riser needs a cover. (DWR Sutter Yard- AFreitag)11/14/2016 Good condition- needs a cover for the riser. (DWR Sutter Yard- AFreitag)5/11/2016 Needs a cover for riser. The rest of the crossing appears to be in good condition.8/3/2015 Crossing appears in good condition but needs a cover made for the riser.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 42-inch steel irrigation pipe (siphon) through the levee, 10 feet below the crown. Slide gate in a 54-inch corrugated metal riser on the waterside (WS) slope. 5-foot by 8-foot concrete distribution box on the landside (LS). Two corrugated metal cutoff walls installed within the levee. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 8+30)]. FS Date: 6/1/2017 2:21:26 PM					

Photo 1 of 2 : UCIP\_SP\_2018\_52090\_68570.jpg



Concrete distribution box with slide gate on LS toe.

LM Start	15.00	Rating **	M	Issue No.	91 (cont)
LM End	15.00	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP\_SP\_2018\_52090\_68569.jpg



CMP riser on WS shoulder with slide gate.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	15.26	Rating **	M	Issue No.	92	
LM End	15.26	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.704409 °	39.704409 °	
				-121.777803 °	-121.777803 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52091 DS_ID:1686 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Only WS and LS standpipes visible. (DWR Sutter Yard- A Freitag)11/14/2016 Still only WS standpipe visible. (DWR Sutter Yard- A Freitag)5/11/2016 Only WS standpipe was visible. 8/3/2015 Only able to locate the standpipe on the WS. 11/25/2014 Same as last inspection. 6/4/2014 Same as last inspection. 11/13/2013 Same as last inspection. 6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe (siphon) through the levee, 10 feet below the crown. Slide gate in a 36-inch corrugated metal riser on the waterside (WS) slope. 30-inch concrete standpipe at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 145+53)]. FS Date: 6/1/2017 2:22:09 PM						

LM Start	15.26	Rating **	M	Issue No.	92 (cont)
LM End	15.26	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP\_SP\_2018\_52091\_68572.jpg



CMP riser on WS slope with slide gate.

Photo 2 of 2 : UCIP\_SP\_2018\_52091\_68571.jpg



Concrete riser on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	15.47	Rating **	M	Issue No.	93
LM End	15.47	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.707544 °	39.707544 °
				-121.777701 °	-121.777701 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:52092 DS_ID:1687 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. WS riser needs a cover. (DWR Sutter Yard- AFreitag)11/14/2016 Good condition- needs a cover for standpipe. (DWR Sutter Yard- AFreitag)5/11/2016 Needs a lcover for riser. The rest of the crossing appears in good condition.8/3/2015 Crossing is in good condition but needs a cover made for the riser.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. Need to construct covers for top of standpipe.11/02/2012 Good candidate for video inspection. FIELD_STRUCT_DESC: 1 of 2: 54-inch corrugated metal irrigation pipe (siphon) through the levee, 17.8 feet below the crown. Slide gate in a 66-inch corrugated metal riser on the waterside (WS). Concrete headwall and irrigation ditch at the landside (LS) toe. Edgar Slough riser units in the floodway. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 132+00)]. FS Date: 6/1/2017 2:23:32 PM					

LM Start	<b>15.47</b>	Rating **	M	Issue No.	<b>93 (cont)</b>
LM End	<b>15.47</b>	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP\_SP\_2018\_52092\_68575.jpg



66-inch CMP riser on WS shoulder with slide gate.

Photo 2 of 3 : UCIP\_SP\_2018\_52092\_68574.jpg



Irrigation ditch at LS toe.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	15.47	Rating **	M	Issue No.	93 (cont)	
LM End	15.47	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.707544 °	39.707544 °	
				-121.777701 °	-121.777701 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52092						
DS_ID:1687						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 5/18/2017 Crossing appears to be in good condition.						
WS riser needs a cover. (DWR Sutter Yard- AFreitag)11/14/2016						
Good condition- needs a cover for standpipe. (DWR Sutter Yard- AFreitag)5/11/2016 Needs a lcover for riser. The rest of the crossing						
appears in good condition.8/3/2015 Crossing is in good condition but						
needs a cover made for the riser.11/25/2014 Same as last						
inspection.6/4/2014 Same as last inspection.11/13/2013 Same as						
last inspection.6/6/2013 Same as last inspection. Need to construct						
covers for top of standpipe.11/02/2012 Good candidate for video						
inspection.						
FIELD_STRUCT_DESC: 1 of 2: 54-inch corrugated metal irrigation pipe						
(siphon) through the levee, 17.8 feet below the crown. Slide gate in a 66-						
inch corrugated metal riser on the waterside (WS). Concrete headwall						
and irrigation ditch at the landside (LS) toe. Edgar Slough riser units in						
the floodway. [Additional Reference(s): DWR Levee Log, 1990. USACE						
Sacramento O&M Manual 516, April 1960, (Station 132+00)].						
FS Date: 6/1/2017 2:23:32 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_52092\_68573.jpg



Concrete headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

FS\_ID:52093  
DS\_ID:16316  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/18/2017 Crossing appears to be in good condition. WS riser needs a cover. (DWR Sutter Yard- AFreitag)11/14/2016 Good condition- needs a cover for standpipe. (DWR Sutter Yard- AFreitag)5/11/2016 Needs a lcover for riser. The rest of the crossing appears in good condition.8/3/2015 Crossing appears in good condition but needs a cover made for the riser.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. Need to construct cover for top of standpipe.11/01/2012 Good candidate for video inspection.  
FIELD\_STRUCT\_DESC: 2 of 2: 54-inch corrugated metal irrigation pipe (siphon) through the levee, 17.8 feet below the crown. Slide gate in a 66-inch corrugated metal riser on the waterside (WS). Concrete headwall and irrigation ditch at the landside (LS) toe. Edgar Slough riser units in the floodway. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 132+00)].  
FS Date: 6/1/2017 2:24:17 PM

LM Start	<b>15.48</b>	Rating **	M	Issue No.	<b>94 (cont)</b>
LM End	<b>15.48</b>	Issue Type +	En	Location *	

Related structure out in floodway.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	03/14/2018 03/14/2018	Bob Duffey

LM Start	15.48	Rating **	M	Issue No.	94 (cont)	
LM End	15.48	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			39.707569 °	39.707569 °	
				-121.777705 °	-121.777705 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52093 DS_ID:16316 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. WS riser needs a cover. (DWR Sutter Yard- AFreitag)11/14/2016 Good condition- needs a cover for standpipe. (DWR Sutter Yard- AFreitag)5/11/2016 Needs a lcover for riser. The rest of the crossing appears in good condition.8/3/2015 Crossing appears in good condition but needs a cover made for the riser.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. Need to construct cover for top of standpipe.11/01/2012 Good candidate for video inspection. FIELD_STRUCT_DESC: 2 of 2: 54-inch corrugated metal irrigation pipe (siphon) through the levee, 17.8 feet below the crown. Slide gate in a 66-inch corrugated metal riser on the waterside (WS). Concrete headwall and irrigation ditch at the landside (LS) toe. Edgar Slough riser units in the floodway. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 132+00)]. FS Date: 6/1/2017 2:24:17 PM						

Photo 3 of 3 : UCIP\_SP\_2018\_52093\_68577.jpg



66-inch CMP riser on WS shoulder.

LM Start	16.05	Rating **	M	Issue No.	39
LM End	16.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.714016 °	39.714016 °
				-121.782317 °	-121.782317 °
DWR ID	DWR_MA0005_02_f_2016_39				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Backfill and compact the rodent holes.					

Photo 1 of 1 : SP\_2018\_MA0005\_197\_39\_20180305\_00015.jpg



View of the rodent holes along the landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2018 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway			Bank	Unit Miles
Unit No. 03 Little Chico Creek Diversion			Left	1.49
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/14/2018 - 3/14/2018			
DWR Inspector	Bob Duffey			
Accompanied By	Shawn Freitag Sutter Maintenance Yard			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Little Chico Creek Diversion	Left	1.49	03/14/2018 03/14/2018	Bob Duffey

LM Start	0.55	Rating **	A	Issue No.	2
LM End	0.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.724182 °	39.724182 °
				-121.780940 °	-121.780940 °
DWR ID	DWR_MA0005_03_s_2018_2				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The grasses was removed from both slopes.					

Photo 1 of 1 : SP\_2018\_MA0005\_198\_2\_20180402\_00001.jpg



View of the no grasses on both slopes.

LM Start	1.44	Rating **	U	Issue No.	3
LM End	1.44	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.732942 °	39.732942 °
				-121.772445 °	-121.772445 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50111 DS_ID:1762 EP_NO: 16381 Repair Type: Urgent Crossing Status: Not Found UCIP Comments: 11/13/2013 Unable to locate. (DWR Sutter Yard - afreitag)6/6/2013 Same as last inspection. Unable to locate. (DWR Sutter Yard - afreitag)11/02/2012 Gasline not marked. Notes in permit indicate installation occurred. Owner needs to install markers. (DWR UCIP - wwylie) FIELD_STRUCT_DESC: 1 of 2: 2-inch gas line of an unknown material through the levee, at an unknown depth, not found. (Permit No. 16381, 1995 - Robertson and Dominick). FS Date: 11/14/2013 1:28:00 PM					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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